

=> fil reg; d stat que l3; d que nos l10
 FILE 'REGISTRY' ENTERED AT 08:56:41 ON 11 SEP 2008
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STRUCTURE FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1
 DICTIONARY FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

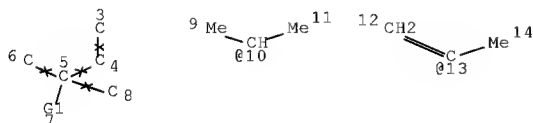
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

L1 STR



'CORE STRUCTURE'

VAR G1=10/13

NODE ATTRIBUTES:

NSPEC	IS	RC	AT	3	
NSPEC	IS	RC	AT	4	
NSPEC	IS	RC	AT	5	
NSPEC	IS	RC	AT	6	
NSPEC	IS	RC	AT	8	
CONNECT	IS	E2	RC	AT	4
DEFAULT	MLEVEL	IS	ATOM		
DEFAULT	ECLEVEL	IS	LIMITED		

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L2 SCR 1006 OR 989
 L3 12081 SEA FILE=REGISTRY SSS FUL L1 AND L2

100.0% PROCESSED 1201109 ITERATIONS
 SEARCH TIME: 00.00.07

12081 ANSWERS

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L1          STR
L2          SCR 1006 OR 989
L3          12081 SEA FILE=REGISTRY SSS FUL L1 AND L2
L9          7913 SEA FILE=REGISTRY ABB=ON 354.11/RID
L10         20 SEA FILE=REGISTRY ABB=ON L9 AND L3 =FORMULA I

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=> fil capl; d que nos l11

FILE 'CAPLUS' ENTERED AT 08:56:49 ON 11 SEP 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 11 Sep 2008 VOL 149 ISS 11

FILE LAST UPDATED: 10 Sep 2008 (20080910/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L1          STR
L2          SCR 1006 OR 989
L3          12081 SEA FILE=REGISTRY SSS FUL L1 AND L2
L9          7913 SEA FILE=REGISTRY ABB=ON 354.11/RID
L10         20 SEA FILE=REGISTRY ABB=ON L9 AND L3
L38         5 SEA FILE=CAPLUS ABB=ON L10

```

=> => d ibib abs hitind hitstr 1-5

L38 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:696855 CAPLUS Full-text

DOCUMENT NUMBER: 143:173005

TITLE: Bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes and their use as flavour or fragrance ingredients

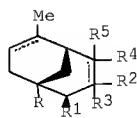
INVENTOR(S): Granier, Thierry; Hanhart, Andreas; Bajgrowicz, Jerzy A.

PATENT ASSIGNEE(S): Givaudan S. A., Switz.

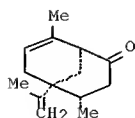
SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005070860	A1	20050804	WO 2005-CH14	20050114
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1706366	A1	20061004	EP 2005-700309	20050114
EP 1706366	B1	20080227		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
CN 1910126	A	20070207	CN 2005-80002975	20050114
BR 2005006996	A	20070703	BR 2005-6996	20050114
JP 2007518743	T	20070712	JP 2006-549824	20050114
AT 387418	T	20080315	AT 2005-700309	20050114
ES 2302172	T3	20080701	ES 2005-700309	20050114
MX 2006PA08111	A	20060920	MX 2006-PA8111	20060714
IN 2006CN02694	A	20070608	IN 2006-CN2694	20060721
PRIORITY APPLN. INFO.:			GB 2004-1187	A 20040121
			WO 2005-CH14	W 20050114
OTHER SOURCE(S):	CASREACT 143:173005; MARPAT 143:173005			
GI				



I



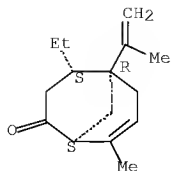
II

AB The present invention relates to substituted bicyclo[3.3.1]nonanes I [R = CHMe2, CMe:CH2; R1 R2, R3 = H, Me, Et; R2R3 = :CHMe, CH2CH2; R4, R5 = H, OH, C1-3-alkoxy, C2-3-acyloxy; CR4R5 = C:O; one dashed line is single bond and the other is a double bond or both dashed lines are single bonds] useful as flavor or fragrance ingredients. Thus, 5-isopropenyl-4,8- dimethylbicyclo[3.3.1]non-7-en-2-one (II) was prepared from (-)- α -pinene via reaction with crotonic anhydride in the presence of ZnBr₂. The odor characteristics of II were determined [fruity, woody, piney, ambery]. A shower gel composition was formulated using II which adds a sophisticated woody-ambery note with fruity (raspberry) undertones.

IC ICM C07C049-653

ICS C07C049-633; C07C043-188; C07C035-23; C07D317-72; C11B009-00
 CC 30-15 (Terpenes and Terpenoids)
 Section cross-reference(s): 17, 24, 62
 IT Bath preparations
 (body care product, ingredient; preparation of bicyclo[3.3.1]nonanes and
 bicyclo[3.3.1]nonenes for use as flavor or fragrance ingredients)
 IT Bath preparations
 (gels, ingredient; preparation of bicyclo[3.3.1]nonanes and
 bicyclo[3.3.1]nonenes for use as flavor or fragrance ingredients)
 IT Chemicals
 (household, ingredient; preparation of bicyclo[3.3.1]nonanes and
 bicyclo[3.3.1]nonenes for use as flavor or fragrance ingredients)
 IT Cosmetics
 Perfumes
 (ingredient; preparation of bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes
 for use as flavor or fragrance ingredients)
 IT Detergents
 (laundry, ingredient; preparation of bicyclo[3.3.1]nonanes and
 bicyclo[3.3.1]nonenes for use as flavor or fragrance ingredients)
 IT Flavoring materials
 Odor and Odorous substances
 (preparation of bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as
 flavor or fragrance ingredients)
 IT 861403-33-0P 861403-35-2P 861403-36-3P
 861403-37-4P 861403-39-6P 861403-40-9P
 861403-41-0P 861403-42-1P 861403-43-2P
 861403-45-4P 861403-47-6P 861403-48-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as
 flavor or fragrance ingredients)
 IT 861403-34-1P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation, odor characteristics and epimerization of; preparation of
 bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or
 fragrance ingredients)
 IT 861403-38-5P 861403-44-3P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation, odor characterization and O-methylation of; preparation of
 bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or
 fragrance ingredients)
 IT 861403-31-8P 861403-46-5P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation, odor characterization and transformations of; preparation of
 bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or
 fragrance ingredients)
 IT 861403-33-0P 861403-35-2P 861403-36-3P
 861403-37-4P 861403-39-6P 861403-40-9P
 861403-41-0P 861403-42-1P 861403-43-2P
 861403-45-4P 861403-47-6P 861403-48-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as
 flavor or fragrance ingredients)
 RN 861403-33-0 CAPLUS
 CN Bicyclo[3.3.1]non-7-en-2-one, 4-ethyl-8-methyl-5-(1-methylethenyl)-,
 (1S,4S,5R)- (CA INDEX NAME)

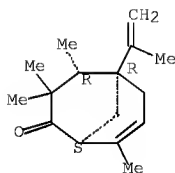
Absolute stereochemistry. Rotation (-).



RN 861403-35-2 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 3,3,4,8-tetramethyl-5-(1-methylethenyl)-, (1S,4R,5R)- (CA INDEX NAME)

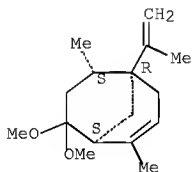
Absolute stereochemistry.



RN 861403-36-3 CAPLUS

CN Bicyclo[3.3.1]nona-2,2-diene, 8,8-dimethoxy-2,6-dimethyl-5-(1-methylethenyl)-, (1S,5R,6S)- (CA INDEX NAME)

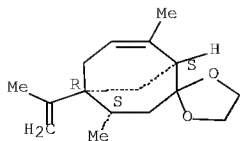
Absolute stereochemistry. Rotation (-).



RN 861403-37-4 CAPLUS

CN Spiro[bicyclo[3.3.1]non-7-ene-2,2'-[1,3]dioxolane], 4,8-dimethyl-5-(1-methylethenyl)-, (1S,4S,5R)- (CA INDEX NAME)

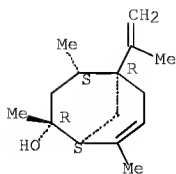
Absolute stereochemistry. Rotation (-).



RN 861403-39-6 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-ol, 2,4,8-trimethyl-5-(1-methylethenyl)-,
(1S,2R,4S,5R)- (CA INDEX NAME)

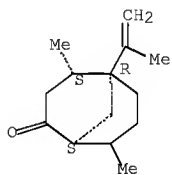
Absolute stereochemistry.



RN 861403-40-9 CAPLUS

CN Bicyclo[3.3.1]nonan-2-one, 4,8-dimethyl-5-(1-methylethenyl)-, (1S,4S,5R)-
(CA INDEX NAME)

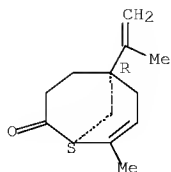
Absolute stereochemistry.



RN 861403-41-0 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 8-methyl-5-(1-methylethenyl)-, (1S,5R)- (CA
INDEX NAME)

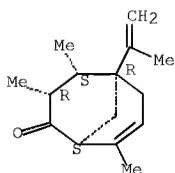
Absolute stereochemistry. Rotation (-).



RN 861403-42-1 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 3,4,8-trimethyl-5-(1-methylethenyl)-,
(1S,3R,4S,5R)- (CA INDEX NAME)

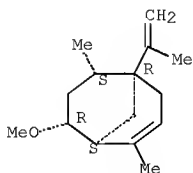
Absolute stereochemistry. Rotation (-).



RN 861403-43-2 CAPLUS

CN Bicyclo[3.3.1]nona-2,2-diene, 8-methoxy-2,6-dimethyl-5-(1-methylethenyl)-,
(1S,5R,6S,8R)- (CA INDEX NAME)

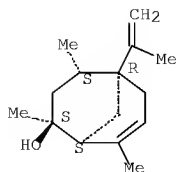
Absolute stereochemistry. Rotation (-).



RN 861403-45-4 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-ol, 2,4,8-trimethyl-5-(1-methylethenyl)-,
(1S,2S,4S,5R)- (CA INDEX NAME)

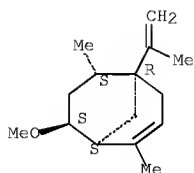
Absolute stereochemistry.



RN 861403-47-6 CAPLUS

CN Bicyclo[3.3.1]nona-2,2-diene, 8-methoxy-2,6-dimethyl-5-(1-methylethenyl)-, (1S,5R,6S,8S)- (CA INDEX NAME)

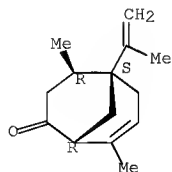
Absolute stereochemistry. Rotation (-).



RN 861403-48-7 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 4,8-dimethyl-5-(1-methylethenyl)-, (1R,4R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 861403-34-1P

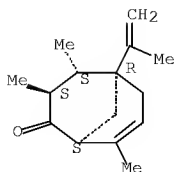
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, odor characteristics and epimerization of; preparation of bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or fragrance ingredients)

RN 861403-34-1 CAPLUS

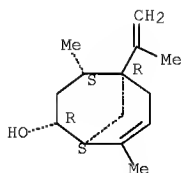
CN Bicyclo[3.3.1]non-7-en-2-one, 3,4,8-trimethyl-5-(1-methylethenyl)-, (1S,3S,4S,5R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



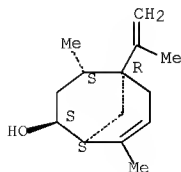
IT 861403-38-5P 861403-44-3P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation, odor characterization and O-methylation of; preparation of
 bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or
 fragrance ingredients)
 RN 861403-38-5 CAPLUS
 CN Bicyclo[3.3.1]non-7-en-2-ol, 4,8-dimethyl-5-(1-methylethenyl)-,
 (1S,2R,4S,5R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 861403-44-3 CAPLUS
 CN Bicyclo[3.3.1]non-7-en-2-ol, 4,8-dimethyl-5-(1-methylethenyl)-,
 (1S,2S,4S,5R)- (CA INDEX NAME)

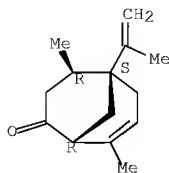
Absolute stereochemistry. Rotation (-).



IT 861403-31-8P 861403-46-5P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation, odor characterization and transformations of; preparation of
 bicyclo[3.3.1]nonanes and bicyclo[3.3.1]nonenes for use as flavor or
 fragrance ingredients)
 RN 861403-31-8 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 4,8-dimethyl-5-(1-methylethenyl)-,
(1R,4R,5S)-rel- (CA INDEX NAME)

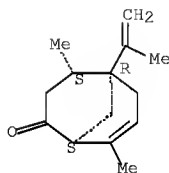
Relative stereochemistry.



RN 861403-46-5 CAPLUS

CN Bicyclo[3.3.1]non-7-en-2-one, 4,8-dimethyl-5-(1-methylethenyl)-,
(1S,4S,5R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:9095 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 142:240118

TITLE: Alkyl aluminum halide promoted intramolecular
cyclization of ω-allyl cycloalk-2-enones: Access
to bridged bi- and tricyclic compounds

AUTHOR(S): Goeke, Andreas; Mertl, Daniel; Brunner, Gerhard
CORPORATE SOURCE: Fragrance Research, Givaudan Schweiz AG, Duebendorf,
8600, Switz.

SOURCE: Angewandte Chemie, International Edition (2005),
44(1), 99-101

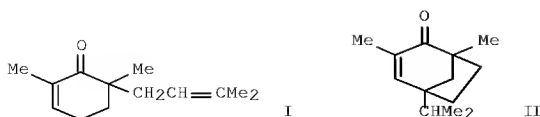
PUBLISHER: CODEN: ACIEF5; ISSN: 1433-7851
Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:240118

GI



AB A rearrangement of ω -allyl cycloalkenones leads to structurally complex bi- and tricyclic ketones in good yields. The method allows efficient access to an olfactorily interesting class of compds. E.g., intramol. cyclization of ω -allyl cycloalk-2-enone I in presence of EtAlCl₂ gave 95% bicycloalkenone II. II had a woody, patchouli, vetiver, and hesperidic scent.

CC 24-8 (Alicyclic Compounds)

Section cross-reference(s): 62

IT Odor and Odorous substances

(preparation and odor of bridged bi- and tricyclic compds. prepared by

alkyl

aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

IT 639060-91-6P 639060-93-8P 639060-96-1P 639061-00-0P

639061-02-2P 639061-10-2P 639061-14-6P

844840-34-2P 844840-37-5P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL

(Biological study); PREP (Preparation); USES (Uses)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

IT 860477-32-3P 860477-91-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

IT 844840-01-3P 844840-03-5P 844840-05-7P 844840-07-9P

844840-08-0P 844840-10-4P 844840-12-6P 844840-14-8P

844840-30-8P 844840-32-0P 844840-39-7P 844840-41-1P

844840-42-2P 844840-44-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

IT 639061-00-0P 639061-02-2P 639061-10-2P

639061-14-6P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL

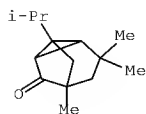
(Biological study); PREP (Preparation); USES (Uses)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

RN 639061-00-0 CAPLUS

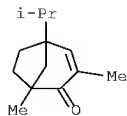
CN Tricyclo[3.2.1.0^{2,7}]octan-6-one, 3,3,5-trimethyl-1-(1-methylethyl)- (9CI)

(CA INDEX NAME)



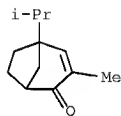
RN 639061-02-2 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 1,3-dimethyl-5-(1-methylethyl)- (CA INDEX NAME)



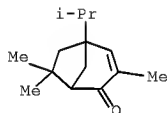
RN 639061-10-2 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 3-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 639061-14-6 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 3,7,7-trimethyl-5-(1-methylethyl)- (CA INDEX NAME)



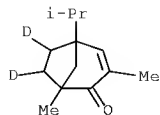
IT 860477-91-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide promoted intramol. cyclization of ω -allyl cycloalk-2-enones)

RN 860477-91-4 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one-7,8-d2, 1,3-dimethyl-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



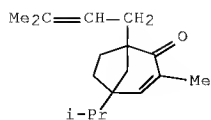
IT 844840-05-7P 844840-07-9P 844840-08-0P
 844840-10-4P 844840-39-7P 844840-41-1P
 844840-42-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of bridged bi- and tricyclic compds. by alkyl aluminum halide
 promoted intramol. cyclization of α -allyl cycloalk-2-enones)

RN 844840-05-7 CAPLUS

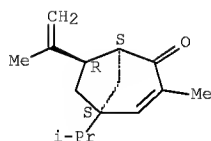
CN Bicyclo[3.2.1]oct-3-en-2-one, 3-methyl-1-(3-methyl-2-buten-1-yl)-5-(1-methylethyl)- (CA INDEX NAME)



RN 844840-07-9 CAPLUS

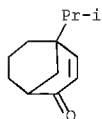
CN Bicyclo[3.2.1]oct-3-en-2-one, 3-methyl-7-(1-methylethenyl)-5-(1-methylethyl)-, (1S,5S,7R)- (CA INDEX NAME)

Absolute stereochemistry.



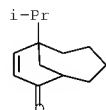
RN 844840-08-0 CAPLUS

CN Bicyclo[3.3.1]non-3-en-2-one, 5-(1-methylethyl)- (CA INDEX NAME)

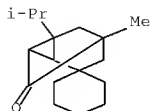


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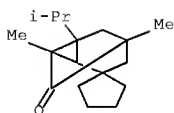
CN Bicyclo[4.3.1]dec-8-en-7-one, 1-(1-methylethyl)- (CA INDEX NAME)



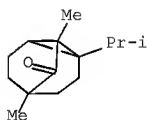
RN 844840-39-7 CAPLUS
 CN Spiro[cyclohexane-1,3'-tricyclo[3.2.1.0^{2,7}]octan]-6'-one,
 5'-methyl-1'-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 844840-41-1 CAPLUS
 CN Spiro[cyclopentane-1,3'-tricyclo[3.2.1.0^{2,7}]octan]-6'-one,
 5',7'-dimethyl-1'-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 844840-42-2 CAPLUS
 CN Tricyclo[3.3.1.0^{2,8}]nonan-9-one, 1,5-dimethyl-2-(1-methylethyl)- (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:806981 CAPLUS Full-text

DOCUMENT NUMBER: 124:55412

ORIGINAL REFERENCE NO.: 124:10477a,10480a

TITLE: Skeletal Rearrangement of 8-Methylenebicyclo[4.2.0]octan-2-ones with Mercury(II) Perchlorate

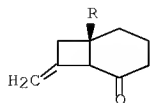
AUTHOR(S): Kakiuchi, Kiyomi; Horiguchi, Tomoyuki; Minato, Koichi; Tobe, Yoshito; Kurosawa, Hideo

CORPORATE SOURCE: Faculty of Engineering, Osaka University, Suita, 565, Japan

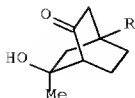
SOURCE: Journal of Organic Chemistry (1995), 60(20), 6557-62
 CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

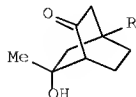
DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:55412
 GI



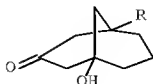
I



II



III



IV

AB Skeletal rearrangement of C6-substituted 8-methylenebicyclo[4.2.0]octan-2-ones with mercury(II) perchlorate was reported. E.g., stirring ketones I (R = Me, Et) with Hg(ClO₄)₂ in acetone gave bicyclo[2.2.2]octanones II and III along with a small amount of the bicyclo[3.3.1]nonanones IV. Substituent effect on the rearrangement was discussed.

CC 24-7 (Alicyclic Compounds)

IT 80638-77-3P 80658-10-2P 171732-02-8P 171732-03-9P 171732-04-0P
 171732-05-1P 171732-06-2P 171732-07-3P 171732-09-5P
 171732-13-1P 171732-15-3P 171732-16-4P 171866-82-3P 171866-83-4P
 171866-84-5P 171866-85-6P

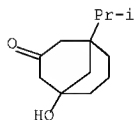
RL: SPN (Synthetic preparation); PREP (Preparation)
 (skeletal rearrangement of methylenebicyclooctanones with mercury(II) perchlorate)

IT 171732-07-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (skeletal rearrangement of methylenebicyclooctanones with mercury(II) perchlorate)

RN 171732-07-3 CAPLUS

CN Bicyclo[3.3.1]nonan-3-one, 1-hydroxy-5-(1-methylethyl)- (CA INDEX NAME)



L38 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1967:416473 CAPLUS Full-text

DOCUMENT NUMBER: 67:16473

ORIGINAL REFERENCE NO.: 67:3135a, 3138a

TITLE: Carbonyl-bridged and related compounds. Structural assignments by nuclear magnetic resonance spectroscopy

AUTHOR(S): Allen, Charles F. H.

CORPORATE SOURCE: Rochester Inst. of Technol., Rochester, NY, USA
 SOURCE: Canadian Journal of Chemistry (1967), 45(11), 1201-7
 CODEN: CJCHAG; ISSN: 0008-4042
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The spectral data, predominantly N.M.R. spectra, of a number of carbonyl-bridged and related compds. have been examined. In most instances they confirm the structures arrived at by classical procedures, but in some instances revisions have been made. 44 references.

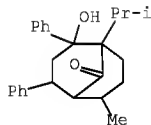
CC 73 (Spectra and Other Optical Properties)

IT 2682-98-6 16643-39-3 16643-40-6 16643-41-7 16643-43-9
 16643-44-0 16643-45-1 16643-46-2 16643-47-3 16643-48-4
 16643-49-5 16643-51-9 16643-52-0 16643-54-2, Indone,
 2,7-dichloro-3a,7a-dihydro-3,3a,5,6-tetraphenyl- 16643-55-3 16654-85-6
 16661-09-9 16661-91-9 16661-92-0
 RL: PRP (Properties)
 (mol. structure of, N.M.R. and)

IT 16643-40-6
 RL: PRP (Properties)
 (mol. structure of, N.M.R. and)

RN 16643-40-6 CAPLUS

CN Bicyclo[3.3.1]nonan-9-one, 2-hydroxy-1-isopropyl-6-methyl-2,4-diphenyl-
 (8CI) (CA INDEX NAME)



L38 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1934:16695 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 28:16695

ORIGINAL REFERENCE NO.: 28:2006f-i,2007a-e

TITLE: Cyclic compounds containing a carbonyl group. A mechanism for the formation of pyrylium salts from 1,5-diketones

AUTHOR(S): Allen, C. F. H.; Sallans, H. R.

SOURCE: Can. J. Research (1933), 9, 574-82

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB cf. C. A. 27, 5071. An EtOH solution of NaOH, CH₂.(CH₂)₄.CO and BzCH:CHPh (I) on standing gives 2-phenacylbenzylcyclohexanone (II), white, m. 149° (dioxime, white, m. 186°). A trimol. compound C₃₆H₃₄O₃, m. 167-8°, forms in the absence of solvent with NaOEt. Similarly there is produced 2-(4-chlorophenacylbenzyl)cyclohexanone, white, m. 125-6°, and 3-Me homolog, white, m. 155-6°. II refluxed with H₂NOH.HCl in EtOH or the dioxime of II in C₆H₆ with HCl gives 5,6,7,8-tetrahydro-2,4-diphenylquinoline as a gum (picrate, yellow, m. 196°). Excess of H₂NOH with phenacylbenzylanthrone (III) (the addition product of I and anthrone) gives only a monoxime, m. 144-5°, but III in the Grignard machine consumes 2 mols. of reagent without evolution of gas, indicating a diketone. II in EtOH and concentrated H₂SO₄ is dehydrated to 2 stereoisomeric forms of bicyclo [3.1.3]-2,4-diphenyl-9- keto-4-nonene (IV), m.

143° and 151°. The lower-melting isomer gives the oxime, m. 156°, and in the Grignard machine consumes 1 mol. of reagent to give bicyclo [3.1.3]- 2,4-diphenyl-9-methyl- 9-hydroxy-4-nonene (V), in. 147°. IV does not lose the CO bridge on heating in contrast to the behavior of other compds. of a similar ring system. II in CHCl₃ and absolute MeOH with HBr gives 2,4-diphenyl-2-methoxyhexahydrobenzopyran (VI), m. 171°. II with H₂SO₄, or any mineral acid or anhydrous CuSO₄, also gives VI. None of the other addition products nor several other previously known 1,5-diketones give a Me ether similar to VI. The addition product of I and menthone prepared by Stobbe (cf. C. A. 7, 3130) is represented best by VII since it gives only a monoxime, consumes 2 mols. of Grignard reagent, and evolves 1 mol. of gas. The 1,5-diketones studied undergo ring closure to produce pyrylium salts of which those containing a metal are made from the ketone and the metal chloride in Ac₂O, and the perchlorates are made by the addition of 50% HClO₄ to a suspension of the diketone in Ac₂O and absolute Et₂O. SnCl₄ and SbCl₅ can replace FeCl₃ in the ferrichlorides. The Sn compound is an addition product of an acetate, but the Fe and Sb compds. are addns. of 1 mol. of the metal chloride to the chloride of the cyclic derivative II, BzCH₂CHPhCH.CHMe.(CH₂)₃.CO (VIII) and BzCH₂CHPhCH.(CH₂)₃.CO (IX), give, resp., the ferrichlorides: C₂₂H₁₉OFeCl₄, yellow, m. 161°; C₂₂H₂₁OFeCl₄, yellow, m. 133°; and C₂₀H₁₇OFeCl₄, brown, m. 126°. II, VIII, IX, and p-PhC₆H₄CO(CH₂)₂CHPhBz (XI) give, resp., the perchlorates: C₂₁H₁₉O₅Cl, yellow, m. 214°; C₂₂H₂₁O₅Cl, orange-yellow, m. 231°; C₂₀H₁₇O₅Cl, yellow, m. 240° (decomposition); C₂₉H₂₁O₅Cl, yellow, m. 258°. II, VIII, IX, BzCH₂CHPhCH₂Bz (X), and XI give, resp., the Sn salts: C₂₃H₂₂O₃SnCl₄, yellow-orange, m. 143°; C₂₄H₂₄O₃SnCl₄, yellow, m. 135°; C₂₁H₂₀O₃SnCl₄, brown, m. 161°; C₂₅H₂₀O₃SnCl₄, yellow, m. 205°; C₃₁H₁₃O₃SnCl₄, orange, m. 206°. X and XI give, resp., the Sb salts: C₂₃H₁₇OSbCl₄, brown, m. 320° (decomposition); C₂₉H₂₁OSbCl₆, brown, m. 233° (decomposition). II and VI with FeCl₃ and Ac₂O give the same ferrichloride. A plausible mechanism for the formation of pyrylium salts from 1,5-diketones is given. PhCH.CH₂.C(OH)Ph CH.CO.CCHMe₂MeCH.CH₂.CH₂ (VII)

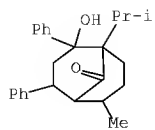
CC 10 (Organic Chemistry)

IT 2682-98-6P, Cyclohexanone, 2-(α-phenacylbenzyl)- 15997-45-2P, Quinoline, 5,6,7,8-tetrahydro-2,4-diphenyl- 15997-46-3P, Quinoline, 5,6,7,8-tetrahydro-2,4-diphenyl-, picrate 16643-40-6P, Bicyclo[3.3.1]nonan-9-one, 2-hydroxy-1-isopropyl-6-methyl-2,4-diphenyl-40011-16-3P, 1,2-Benzopyran, 3,4,5,6,7,8-hexahydro-2-methoxy-2,4-diphenyl-54608-04-7P, Cyclohexanone, 2-(α-phenacylbenzyl)-, dioxime 446309-69-9P, Cyclohexanone, 2-[α-(p-chlorophenacyl)benzyl]- 859819-94-6P, Cyclohexanone, 2-[α-(p-chlorophenacyl)benzyl]-3-methyl-860588-74-5P, Bicyclo[3.3.1]non-8-en-9-one, 6,8-diphenyl-, oxime 860588-76-7P, Bicyclo[3.3.1]non-8-en-9-one, 6,8-diphenyl- 860588-78-9P, Bicyclo[3.3.1]non-8-en-9-ol, 9-methyl-6,8-diphenyl- 860728-92-3P, Anthrone, 10-(α-phenacylbenzyl)-, oxime
RL: PREP (Preparation)
(preparation of)

IT 16643-40-6P, Bicyclo[3.3.1]nonan-9-one, 2-hydroxy-1-isopropyl-6-methyl-2,4-diphenyl-
RL: PREP (Preparation)
(preparation of)

RN 16643-40-6 CAPLUS

CN Bicyclo[3.3.1]nonan-9-one, 2-hydroxy-1-isopropyl-6-methyl-2,4-diphenyl- (8CI) (CA INDEX NAME)



SEARCH OF 'CORE STRUCTURE' + TEXT TERMS

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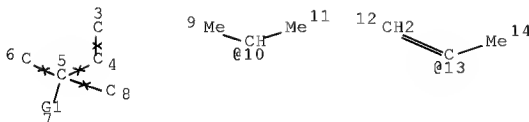
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<http://www.cas.org/support/stngen/stndoc/properties.html>

L1

STR



VAR G1=10/13

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NSPEC	IS	RC	AT	4
NSPEC	IS	RC	AT	5
NSPEC	IS	RC	AT	6
NSPEC	IS	RC	AT	8
CONNECT	IS	E2	RC	AT 4
DEFAULT MLEVEL IS ATOM				
DEFAULT ECLEVEL IS LIMITED				

GRAPH ATTRIBUTES:

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 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L2 SCR 1006 OR 989

L3 12081 SEA FILE=REGISTRY SSS FUL L1 AND L2

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FILE LAST UPDATED: 10 Sep 2008 (20080910/ED)

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L1 STR
L2 SCR 1006 OR 989
L3 12081 SEA FILE=REGISTRY SSS FUL L1 AND L2
L13 26345 SEA FILE=CAPLUS ABB=ON L3
L15 142 SEA FILE=CAPLUS ABB=ON L13(L)COS/RL COS=COSMETIC USE
L20 17445 SEA FILE=CAPLUS ABB=ON PERFUME#/CW
L24 3735 SEA FILE=CAPLUS ABB=ON BATH PREPARATIONS/CT
L28 16 SEA FILE=CAPLUS ABB=ON L15 AND (L20 OR L24)

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COSMETICS
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L26 12812 SEA FILE=CAPLUS ABB=ON HOUSEHOLD/OBI
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L14 4654 SEA FILE=CAPLUS ABB=ON L13 AND 62/SC,SX
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L36 5 SEA FILE=CAPLUS ABB=ON L31 AND L33

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ANSWER SET (PREVIOUSLY DISPLAYED)

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L39 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:43455 CAPLUS Full-text
DOCUMENT NUMBER: 148:127715
TITLE: Flavor oils with reduced sulfur content and use in
oral care compositions
INVENTOR(S): Swaine, Robert Leslie, Jr.; Zehentbauer, Gerhard
Norbert; Hoke, Steven Hamilton, II; Hester, Marc Alan;
Ramji, Niranjan; McClenathan, Denise Marie
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA
SOURCE: PCT Int. Appl., 43pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008005549	A2	20080110	WO 2007-US15601	20070706
WO 2008005549	A3	20080626		
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CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,
 GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
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 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
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 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 20080008665	A1	20080110	US 2007-825177	20070705
US 20080008667	A1	20080110	US 2007-825277	20070705
US 20080008729	A1	20080110	US 2007-825278	20070705

PRIORITY APPLN. INFO.:		US 2006-819154P	P	20060707
		US 2006-819156P	P	20060707

AB The present invention relates to flavor oils including mint, fruit and spice-type flavors that are specially processed to substantially eliminate low-mol. weight sulfur compds., in particular DMSO, which has been found to be the main precursor of malodorous species such as di-Me sulfide and Me mercaptan. These malodorous species are produced via oxidation-reduction reactions involving such sulfur-containing compds. present in flavor oils. A preferred processing method is an aqueous-washing process, which has advantages of being simple, inexpensive and easy to implement while importantly avoiding the problems of typical processes including non-selective removal of desirable components and subjecting the flavor oils to extreme conditions that may destroy other components and result in undesirable changes in flavor or odor character. Other processing methods to selectively remove non-desired components include (1) distillation to remove polar low b.p. components, (2) filtration through adsorbents selective for sulfur compds., (3) countercurrent extraction and (4) column chromatog. The processing methods may optionally be followed by re-engineering to add back desired components that may have been removed or altered during the processing. The specially processed flavor oils are particularly useful in oral care compns. comprising components with chemical reducing capability such as stannous ions, which react with the sulfur-containing compds. to produce malodorous products. Thus, a flavor composition containing the select mint oil (essentially free of DMSO and other malodor sulfur compds.) 60%, anethole 10%, menthol 25%, and eucalyptol 5% was prepared and incorporated into a dentifrice containing stannous ions and orally acceptable carriers.

IC ICM A61K
 CC 62-5 (Essential Oils and Cosmetics)

IT Abrasives
 Anticalculus oral hygiene products
 Antimicrobial agents
 Dentifrices
 Denture cleaners
 Flavor
 Flavoring materials
 Mouthwashes
 Odor and Odorous substances
 Oral hygiene chewing gum
 Pharmaceutical lozenges
 Tooth gels
 (flavor oils with reduced sulfur content and their use in oral care compns.)

IT 78-70-6, Linalool 80-56-8, α -Pinene 87-44-5,
 β -Caryophyllene 89-48-5, Menthyl acetate 89-79-2, Isopulegol
 89-80-5, Menthone 89-81-6, Piperitone 89-82-7, Pulegone 89-83-8,

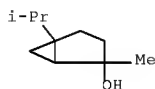
Thymol 98-55-5, α -Terpineol 99-85-4, γ -Terpinene
 99-86-5, α -Terpinene 102-76-1, Triacetin 104-46-1, Anethole
 123-35-3, Myrcene 127-91-3, β -Pinene 138-86-3, Limonene
 470-82-6, Eucalyptol 491-07-6, Isomenthone 494-90-6, Menthofuran
 546-79-2, Sabinene hydrate 552-02-3, Viridiflorol 562-74-3,
 Terpinen-4-ol 586-62-9 589-98-0, 3-Octanol 639-99-6, Elemol
 1490-04-6, Menthol 3387-41-5, Sabinene 3623-51-6, Neomenthol
 3623-52-7, Isomenthol 5208-59-3, β -Bourbonene 6753-98-6,
 α -Humulene 13341-72-5, Menthalactone 15423-57-1, Germacrene B
 18794-84-8, trans- β -Farnesene 20777-36-0, Neoisomenthyl acetate
 23986-74-5, Germacrene D 27400-71-1, cis-Ocimene 27400-72-2,
 trans-Ocimene

RL: COS (Cosmetic use); NPO (Natural product occurrence); BIOL
 (Biological study); OCCU (Occurrence); USES (Uses)
 (flavor oils with reduced sulfur content and their use in oral care
 compns.)

IT 546-79-2, Sabinene hydrate 3387-41-5, Sabinene
 RL: COS (Cosmetic use); NPO (Natural product occurrence); BIOL
 (Biological study); OCCU (Occurrence); USES (Uses)
 (flavor oils with reduced sulfur content and their use in oral care
 compns.)

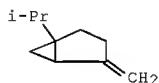
RN 546-79-2 CAPLUS

CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 3387-41-5 CAPLUS

CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:793525 CAPLUS Full-text

DOCUMENT NUMBER: 147:172984

TITLE: Solid volatile compositions as odor materials

INVENTOR(S): Nakatsu, Tetsuo; Kubota, Ichiro

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 11pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	US 20070166341	A1	20070719	US 2006-486353	20060712
PRIORITY APPLN. INFO.:				US 2005-698666P	P 20050712

AB This invention provides a solid air freshener and method for manufacturing the same wherein a composition is constructed from a first material being a solid volatile material at an ambient temperature and a second material being a vicious oily fluid volatile material at ambient temperature. The present invention combines the first and second materials to make a solid, in one embodiment a solid, crystalline or semi-crystalline, air freshener as a substitute for scented candles that is solid at ambient temps. The present invention provides for an improved mechanism for delivering scent without a risk of fire or liquid wax. The present product may be retained in a monolithic construct, or ground as a small powder. Applications include a room air freshener, carpet deodorizer, toilet freshener, etc. Antimicrobial oily comps. may be included to limit unhealthy buildups.

INCL 424405000; 424439000; 512001000

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 40

IT Air fresheners
Cosmetic solids
Crystals
Detergents
Heat treatment
Hygiene
Odor and Odorous substances
Phase transition temperature
Volatile substances
(solid volatile composition and method and system for making same)

IT 57-10-3, Palmitic acid, biological studies 77-53-2, Cedrol 77-54-3, Cedryl acetate 80-59-1, Tiglic acid 80-71-7, Cyclotene 81-15-2, Musk Xylol 83-34-1, Skatole 83-66-9, Musk ambrette 87-22-9 87-29-6, Cinnamyl anthranilate 88-29-9, Versalide 89-83-8, Thymol 90-17-5, Rose phenone 91-10-1, 2,6-Dimethoxy phenol 91-64-5, Coumarin 93-29-8, Acetyl iso-eugenol 93-60-7, Methyl nicotinate 94-62-2, Piperine 94-86-0, Vanitrope 98-53-3, p-tert-Butyl cyclohexanone 101-94-0 103-53-7 103-82-2, Phenyl acetic acid, biological studies 104-27-8 110-16-7, Maleic acid, biological studies 111-57-9, Amisol SME 116-66-5, Moskene 118-55-8, Phenyl salicylate 119-61-9, Benzophenone, biological studies 120-11-6, Benzyl-iso-eugenol 120-14-9, Methyl vanillin 120-47-8, Ethyl-4-hydroxybenzoate 120-57-0, Heliotropine 120-72-9, Indole, biological studies 121-33-5, Vanillin 121-34-6, Vanillic acid 121-98-2 122-48-5, Zingerone 122-69-0, Cinnamyl cinnamate 123-07-9, p-Ethylphenol 123-76-2, Levulinic acid 128-37-0, BHT, biological studies 133-18-6, Phenyl ethyl anthranilate 143-07-7, Dodecanoic acid, biological studies 145-39-1, Musk tibetene 150-78-7 156-38-7, Hydroxyphenyl acetic acid p- 326-61-4, Piperonyl acetate 404-86-4, Capsaicin 490-03-9, Diosphenol 495-78-3, Hydroxyphenyl propionic acid-o- 498-00-0, Vanillyl alcohol 499-44-5, Hinokitiol 501-52-0, Benzenepropanoic acid 502-72-7, Cyclopentadecanone 513-23-5, 3-Thujanol 515-03-7, Sclareol 544-63-8, Myristic acid, biological studies 565-63-9, Angelic acid 621-37-4, Hydroxyphenyl acetic acid m- 621-82-9, Cinnamic acid, biological studies 623-15-4, Furfural acetone 623-30-3 638-17-5, Thialdine 881-68-5, Acetyl vanillin 1138-52-9, 3,5-Di-t-butylphenol 1139-30-6, Caryophyllene oxide 1330-70-7, Hydroxystearic acid 1333-47-7, Methyl coumarin 1333-52-4, Methyl naphthyl ketone 1334-80-1, Methoxy cinnamic aldehyde 1632-73-1, Fenchyl alcohol 2444-46-4 2628-17-3, p-Hydroxy styrene 3160-37-0, Heliotropyl acetone 3658-77-3 3724-65-0, Crotonic acid 4940-11-8, Ethylmaltol 5471-51-2, Raspberry ketone 5986-55-0, Patchouli Alcohol 6790-58-5, Ambroxane

7784-67-0, Ethyl isoeugenol 13171-00-1, Celestolide 13494-06-9
 13494-07-0 21145-77-7, Tonalid 25013-16-5, BHA 25155-26-4, Dimethoxy
 phenol 28231-03-0, Cedrenol 30950-27-7 32388-55-9, Acetyl cedrene
 51555-24-9, Acetoin dimer 56747-96-7, Caryophyllene alcohol
 57082-24-3, Caryophyllene acetate 57982-68-0 72445-42-2, Mint sulfide
 435275-03-9, Calone

RL: COS (Cosmetic use); TEM (Technical or engineered material
 use); BIOL (Biological study); USES (Uses)

(solid volatile composition and method and system for making same)

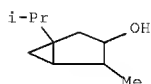
IT 513-23-5, 3-Thujanol

RL: COS (Cosmetic use); TEM (Technical or engineered material
 use); BIOL (Biological study); USES (Uses)

(solid volatile composition and method and system for making same)

RN 513-23-5 CAPLUS

CN Bicyclo[3.1.0]hexan-3-ol, 4-methyl-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:33338 CAPLUS Full-text

DOCUMENT NUMBER: 146:121947

TITLE: Preparation of vanillin glycol acetals and sensory
 stimulant compositions comprising the same

INVENTOR(S): Ishida, Kenya; Aida, Takashi

PATENT ASSIGNEE(S): Takasago International Corporation, Japan

SOURCE: PCT Int. Appl., 55pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007004740	A1	20070111	WO 2006-JP313799	20060705
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2007015953	A	20070125	JP 2005-197205	20050706
CA 2614086	A1	20070111	CA 2006-2614086	20060705
EP 1902043	A1	20080326	EP 2006-780971	20060705
R:	DE, FR, GB			
CN 101218222	A	20080709	CN 2006-80024516	20080104
KR 2008030651	A	20080404	KR 2008-702823	20080201

PRIORITY APPLN. INFO.:

JP 2005-197205

A 20050706

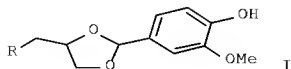
WO 2006-JP313799

W 20060705

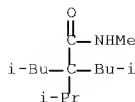
OTHER SOURCE(S):

MARPAT 146:121947

GI



- AB Title compds. I [wherein R = H, alkyl or alkoxy], which show an excellent pungent and/or warming sensation effect and a cooling sensation- emphasizing effect, and therefore can be widely used in flavor and fragrance compns., beverage or food products, fragrance or cosmetic products, daily utensil products, oral compns., or pharmaceutical products, were prepared For instance, acetalization of vanillin with hexylene glycol in the presence of p-TsOH·H₂O gave acetal I (R = n-Pr) in 95.8% yield. This product showed very fast sensation effect and 4.5 out of 5 intensity of warming sensation and pungent taste.
- CC 28-5 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 17, 25, 62, 63
- IT Bath preparations
Beverages
Cosmetics and personal care products
Drug delivery systems
Food additives
Perfumes
Shampoos
(preparation of vanillin glycol acetals and sensory stimulant compns. comprising the same)
- IT 76-22-2, Camphor 89-78-1, Menthol 89-79-2, Isopulegol 89-80-5, Menthone 470-82-6, Cineole 529-02-2, Pulegol 17162-29-7, Menthyl lactate 38706-03-5 42822-86-6, p-Menthane-3,8-diol 63187-91-7 73410-18-1 75443-64-0 108766-16-1 156324-82-2 156679-39-9 188709-97-9 188709-97-9D, alkali and alkaline earth metal salts 195863-84-4 200123-66-6 207792-35-6, 3-(L-Menthoxo)propane-1,2-diol 351420-48-9 351420-50-3 406179-70-2 406179-70-2D, alkali and alkaline earth metal salts 506412-91-5 532411-31-7D, N-alkyl 831213-72-0 870719-63-4 917750-72-2 918790-15-5
RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of vanillin glycol acetals and sensory stimulant compns. comprising the same)
- IT 870719-63-4
RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of vanillin glycol acetals and sensory stimulant compns. comprising the same)
- RN 870719-63-4 CAPLUS
- CN Pentanamide, N,4-dimethyl-2-(1-methylethyl)-2-(2-methylpropyl)- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:1256061 CAPLUS Full-text
 DOCUMENT NUMBER: 147:219354
 TITLE: Qualitative analysis of volatile compounds in perfumes by headspace solid-phase microextraction/gas chromatography-mass spectrometry
 AUTHOR(S): Chitsamphandhvej, Winyu; Thongoon, Waraporn; Tiriat, Patcharaporn
 CORPORATE SOURCE: Department of Chemistry, Faculty of Science, King Mongkut's University of Technology Thonburi, Bangkok, Thailand
 SOURCE: Proceeding of the Kasetsart University Annual Conference, 44th, Bangkok, Thailand, Jan. 30-Feb. 2, 2006 (2006), 353-360. Kasetsart University: Bangkok, Thailand.
 CODEN: 69IQDQ; ISBN: 974-537-823-2
 DOCUMENT TYPE: Conference
 LANGUAGE: Thai

AB The volatile components of twenty kinds of perfumes were investigated. These volatile components were obtained by Headspace-Solid Phase Microextn. (HS-SPME) technique with four types of fibers; DVB/CAR/PDMS, CW/DVB, PDMS/DVB and CAR/PDMS. The determination was performed in combination of gas chromatog.-mass spectrometry (GC-MS). The result showed that DVB/CAR/PDMS and PDMS/DVB gave better extraction response than CW/DVB and CAR/PDMS. One hundred and thirteen compds. were identified and classified to forty-two alkenes, twenty-six esters, fourteen alcs., twelve ketones, nine aldehydes, six ethers, three hydrocarbons and two carboxylic acids. The volatile compds. which found in many perfumes were α -Pinene, β -Pinene, β -Myrcene, Cymene, Limonene, Linalool, Benzyl acetate, Linalyl acetate and Lillal.

CC 62-5 (Essential Oils and Cosmetics)

IT Headspace gas chromatography
 Perfumes

(qual. anal. of volatile compds. in perfumes by headspace solid-phase microextn./gas chromatog.-mass spectrometry)
 IT 57-10-3, Hexadecanoic acid, biological studies 60-12-8, Benzeneethanol 76-22-2, Camphor 78-70-6, Linalool 79-92-5, Camphene 80-54-6, Lillal 80-56-8, α -Pinene 81-14-1, Musk ketone 84-66-2, Ethyl phthalate 84-74-2, Butyl phthalate 87-20-7, Isopentyl salicylate 87-44-5, Caryophyllene 88-29-9, Versalide 89-80-5, Menthone 93-58-3, Methyl benzoate 95-13-6, 1H-Indene 95-16-9, Benzothiazole 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 100-51-6, Benzenemethanol, biological studies 100-52-7, Benzaldehyde, biological studies 104-93-8, 4-Methylanisole 105-37-3, Ethyl propanoate 105-54-4, Ethyl Butyrate 105-87-3, Geranyl acetate 106-02-5, Oxacyclohexadecan-2-one 106-26-3 108-88-3, Toluene, biological studies 115-95-7, Linalyl acetate 119-36-8, Methyl salicylate 120-51-4, Benzyl benzoate 122-40-7, Amylcinnamaldehyde 123-11-5, Anisaldehyde, biological studies 123-35-3, β -Myrcene 123-86-4, Butyl acetate

123-92-2, Isoamyl acetate 127-91-3, β -Pinene 128-37-0, biological studies 128-51-8, Nopyl acetate 138-86-3, Limonene 140-11-4, Benzyl acetate 140-66-9, p-Octylphenol 140-67-0, Estragol 141-12-8, Neryl acetate 141-78-6, Ethyl acetate, biological studies 142-62-1, Hexanoic acid, biological studies 142-92-7, Hexyl acetate 150-84-5, Citronellyl acetate 151-21-3, biological studies 469-61-4, α -Cedrene 470-40-6, Widdrene 470-82-6, 1,8-Cineole 471-15-8, β -Thujone 475-03-6, Ionene 475-03-6D, α -Ionene, isomethyl derivative 475-20-7, Junipene 483-76-1, δ -Cadinene 488-10-8, cis-Jasmone 491-07-6, Isomenthone 508-32-7, Tricyclene 514-51-2, β -Patchoulene 529-16-8, Santene 546-80-5, α -Thujone 560-32-7, α -Patchoulene 562-74-3 586-62-9, Terpinolene 586-63-0, Isoterpinolene 586-82-3, 1-Terpinenol 1205-17-0, Helional 1222-05-5, Galaxolide 1335-66-6, Isocyclocitral 2050-08-0, Amyl salicylate 2244-16-8 2630-39-9, Methyl dihydrojasmonate 2867-05-2, α -Thujene 3033-23-6, cis-Rose oxide 3387-41-5, Sabinene 3691-11-0, δ -Guaiane 3691-12-1, α -Guaiane 3853-83-6, α -Himachalene 3856-25-5, α -Copaene 5208-59-3, β -Bourbonene 5655-61-8 5951-67-7, α -Elemene 6753-98-6, α -Humulene 7452-79-1, Ethyl 2-methylbutanoate 8013-00-1, Terpinene 10198-23-9, β -Terpinyl acetate 10219-75-7, Eremophilene 13466-78-9 15220-85-6, Tetraisobutylene 17699-05-7, α -Bergamotene 17699-14-8, α -Cubebene 20085-93-2, Seychellene 25155-15-1, Cymene 28028-64-0, Germacrene 29714-87-2, Ocimene 32388-55-9, Acetylcedrene 39350-49-7, Hexyl cinnamaldehyde 39546-75-3, 7-Octen-2-ol 43052-87-5, α -Damascone 53219-21-9, Dihydromyrcenol 57576-09-7, Isopulegyl acetate 69671-15-4, Muurolene 84607-57-8 87745-31-1, Aciphyllene 209126-21-6 301317-48-6, Triptial
 RL: ANT (Analyte); COS (Cosmetic use); ANST (Analytical study);
 BIOL (Biological study); USES (Uses)

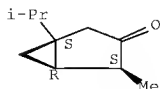
(qual. anal. of volatile compds. in perfumes by headspace solid-phase microextn./gas chromatog.-mass spectrometry)

IT 471-15-8, β -Thujone 546-80-5, α -Thujone 2867-05-2, α -Thujene 3387-41-5, Sabinene
 RL: ANT (Analyte); COS (Cosmetic use); ANST (Analytical study);
 BIOL (Biological study); USES (Uses)
 (qual. anal. of volatile compds. in perfumes by headspace solid-phase microextn./gas chromatog.-mass spectrometry)

RN 471-15-8 CAPLUS

CN Bicyclo[3.1.0]hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S,4S,5R)- (CA INDEX NAME)

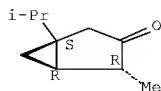
Absolute stereochemistry.



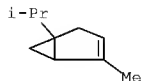
RN 546-80-5 CAPLUS

CN Bicyclo[3.1.0]hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S,4R,5R)- (CA INDEX NAME)

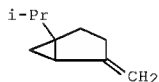
Absolute stereochemistry.



RN 2867-05-2 CAPLUS
 CN Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 3387-41-5 CAPLUS
 CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:1092032 CAPLUS [Full-text](#)
 DOCUMENT NUMBER: 146:386315
 TITLE: Analysis of microencapsulation ability of essential oils during spray drying
 AUTHOR(S): Adamiec, Janusz; Kalembe, Danuta
 CORPORATE SOURCE: Faculty of Process and Environmental Engineering, Technical University of Lodz, Pol.
 SOURCE: Drying Technology (2006), 24(9), 1127-1132
 CODEN: DRTEDQ; ISSN: 0737-3937
 PUBLISHER: Taylor & Francis, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Results of preliminary investigations of the preservation of elemi and peppermint oils in a maltodextrin microcapsule during spray drying of emulsion in a laboratory dryer are discussed. The ratio of maltodextrin to water in the emulsion was 30:70, and the content of each oil 10, 20, and 30 wt.% in relation to maltodextrin. Product quality and results of the process were estimated on the basis of microscopic features of the powder (the shape and size of microparticles) and its d., moisture content and water vapor sorptivity. The efficiency of encapsulation was estimated by specifying the content of essential oil in the product. The comps. of initial oils and the oils contained in the emulsion, inside and on the capsule surface were compared. The pos. results of this study justify the necessity of further research and provide a perspective for developing novel technologies.

CC 62-2 (Essential Oils and Cosmetics)
 IT Absorptivity
 Density

Emulsification

Humidity

Odor and Odorous substances

Particle size

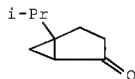
Pharmaceutical carriers

Pharmaceutical microcapsules

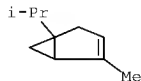
Pharmaceutical microparticles

(microencapsulation ability of essential oils during spray drying)

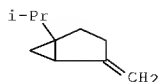
- IT 76-49-3, Bornyl acetate 79-92-5, Camphene 80-56-8, α -Pinene 87-44-5, β -Caryophyllene 89-48-5, Menthyl acetate 89-78-1, Menthol 89-80-5, Menthone 89-81-6, Piperitone 89-82-7, Pulegone 98-55-5, α -Terpineol 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 99-86-5, α -Terpinene 99-87-6, p-Cymene 127-91-3, β -Pinene 138-86-3, Limonene 470-82-6, 1,8-Cineole 483-76-1, δ -Cadinene 491-07-6, Isomenthone 499-74-1, Carvenone 513-20-2, Sabinaketone 562-74-3, Terpinen-4-ol 586-62-9, Terpinolene 1195-32-0, p-Cymenene 2867-05-2, α -Thujene 3387-41-5, Sabinene 3623-51-6, Neomenthol 3623-52-7, Isomenthol 3856-25-5, α -Copaene 5208-59-3, β -Bourbonene 6753-98-6, α -Humulene 6980-46-7, γ -Amorphene 17334-55-3, Calarene 20307-84-0, δ -Elemene 20777-45-1, Isomenthyl acetate 23986-74-5, Germacrene D 30021-74-0, γ -Muurolene 33880-83-0, β -Elemene
- RL: ANT (Analyte); COS (Cosmetic use); NPO (Natural product occurrence); PRP (Properties); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
- (microencapsulation ability of essential oils during spray drying)
- IT 513-20-2, Sabinaketone 2867-05-2, α -Thujene 3387-41-5, Sabinene
- RL: ANT (Analyte); COS (Cosmetic use); NPO (Natural product occurrence); PRP (Properties); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
- (microencapsulation ability of essential oils during spray drying)
- RN 513-20-2 CAPLUS
- CN Bicyclo[3.1.0]hexan-2-one, 5-(1-methylethyl)- (CA INDEX NAME)



- RN 2867-05-2 CAPLUS
- CN Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



- RN 3387-41-5 CAPLUS
- CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:877978 CAPLUS Full-text

DOCUMENT NUMBER: 145:382895

TITLE: Study of the specific chemical composition of the essential oils from two species of *Juniperus*

AUTHOR(S): Aeshina, E. N.; Velichko, N. A.

CORPORATE SOURCE: Sib. Gos. Tekhnol. Univ., Krasnoyarsk, Russia

SOURCE: Khimiya Rastitel'nogo Syr'ya (2005), Volume Date 2004, (4), 35-37

CODEN: KRSHC4; ISSN: 1029-5151

PUBLISHER: Izdatel'stvo Altaiskogo Gosudarstvennogo Universiteta

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The objects of research were two species of juniper, growing in the territory of Krasnoyarsk Region: *Juniperus sibirica* B. and *Juniperus sabina* L. The purpose of the research was determination of the contents of essential oils in the two species of juniper and anal. of the specific compns. of these oils. As a result of the performed research the quant. and qual. composition of the essential oils from *Juniperus sibirica* B. and *Juniperus sabina* L. were determined. It was found that *Juniperus sibirica* B., growing in the territory of Krasnoyarsk Region, exhibits higher contents of essential oils relative to populations of the same species growing in other regions of the country. On the basis of these results *Juniperus sibirica* B. can be recommended as potential source for obtaining essential oils.

CC 62-2 (Essential Oils and Cosmetics)

IT Cosmetics
Perfumes

(chemical composition of the essential oils from two species of *Juniperus*)
IT 76-22-2, Camphor 76-49-3, Bornyl acetate 79-92-5, Camphene 80-56-8,
 α -Pinene 87-44-5, Caryophyllene 99-83-2, α -Phellandrene
99-85-4, γ -Terpinene 106-22-9, Citronellol 106-24-1, Geraniol
107-92-6, Butanoic acid, biological studies 123-35-3, β -Myrcene
127-91-3, β -Pinene 138-86-3, Limonene 275-51-4, Azulene
471-16-9, Sabinol 502-61-4, α -Farnesene 515-69-5,
 α -Bisabolol 554-61-0, Δ^2 -Carene 2867-05-2,
 α -Thujene 3387-41-5, Sabinene 3856-25-5, Copaene
11029-06-4, Elemene 13466-78-9, Δ^3 -Carene 17066-67-0,
 β -Selinene 17627-44-0, α -Bisabolene 17699-14-8,
 α -Cubebene 20085-19-2, α -Amorphene 29350-73-0, Cadinene
53833-85-5, Sabinylacetate

RL: COS (Cosmetic use); NPO (Natural product occurrence); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); OCCU
(Occurrence); USES (Uses)

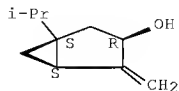
(chemical composition of the essential oils from two species of *Juniperus*)
IT 471-16-9, Sabinol 2867-05-2, α -Thujene
3387-41-5, Sabinene 53833-85-5, Sabinylacetate

RL: COS (Cosmetic use); NPO (Natural product occurrence); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); OCCU
(Occurrence); USES (Uses)
(chemical composition of the essential oils from two species of Juniperus)

RN 471-16-9 CAPLUS

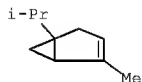
CN Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1S,3R,5S)- (CA
INDEX NAME)

Absolute stereochemistry. Rotation (+).



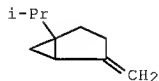
RN 2867-05-2 CAPLUS

CN Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 3387-41-5 CAPLUS

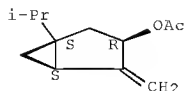
CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



RN 53833-85-5 CAPLUS

CN Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, 3-acetate,
(1S,3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.



L39 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:544518 CAPLUS Full-text

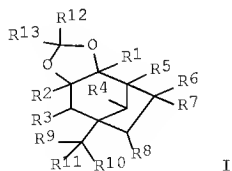
DOCUMENT NUMBER: 145:46050

TITLE: Process for the preparation of cyclic ketal fragrance
compounds

INVENTOR(S): Goeke, Andreas

PATENT ASSIGNEE(S): Givaudan SA, Switz.
 SOURCE: PCT Int. Appl., 6 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006058450	A2	20060608	WO 2005-CH715	20051130
WO 2006058450	A3	20060824		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM EP 1817299 A2 20070815 EP 2005-804269 20051130 EP 1817299 B1 20080319 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR CN 101068802 A 20071107 CN 2005-80041402 20051130 AT 389647 T 20080415 AT 2005-804269 20051130 JP 2008521838 T 20080626 JP 2007-543677 20051130 ES 2302244 T3 20080701 ES 2005-804269 20051130 KR 2007085569 A 20070827 KR 2007-712201 20070530 IN 2007CN02363 A 20070907 IN 2007-CN2363 20070601 US 20080207482 A1 20080828 US 2007-720661 20071012 PRIORITY APPLN. INFO.: GB 2004-26376 A 20041202 GI GB 2005-7925 A 20050420 WO 2005-CH715 W 20051130				
OTHER SOURCE(S): CASREACT 145:46050; MARPAT 145:46050				



AB Cyclic ketal fragrance compds. [I; R1, R5, R6, R8, R11 = H, Me, Et, Pr, iso-Pr; R3 = H, Me, Et, Pr, iso-Pr, vinyl; R4 = H, Me, ethyl; R2, R7, R9 = H, Me, Et, Pr, iso-Pr, Bu, iso-Bu, tert-butyl; R10 = H, Me, Et, Pr, iso-Pr, tert-

butyl; R12, R13 = H, C1-6 (un)branched alkyl; or R4 and R11 together with the carbon atoms to which they are attached may form a 5- or a 6-membered cycloalkyl ring; or R6 and R7 together with the carbon atoms to which they are attached form a 3-6 membered cycloalkyl ring; e.g., 8-isopropyl-2,4,4,10,10-pentamethyl-3,5-dioxatricyclo[6.2.1.0^{2,6}]undecane], which have strong odors and are useful in fragrances and fragrance applications (no data), are prepared

IC ICM C07C

CC 28-5 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 62

IT Odor and Odorous substances

Perfumes

(process for the preparation of cyclic ketal fragrance compds.)

IT 890045-03-1P 890045-07-5P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(process for the preparation of cyclic ketal fragrance compds.)

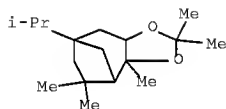
IT 890045-03-1P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(process for the preparation of cyclic ketal fragrance compds.)

RN 890045-03-1 CAPLUS

CN 4,7-Methano-4H-cyclohepta-1,3-dioxole, hexahydro-2,2,3a,5,5-pentamethyl-7-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:363284 CAPLUS Full-text

DOCUMENT NUMBER: 144:419073

TITLE: Quinic acid derivatives for enhancing effect of refreshing/cooling agents, and manufacture thereof

INVENTOR(S): Matsumoto, Katsuyuki; Yasuma, Kazuomi; Sakuma, Katsuya

PATENT ASSIGNEE(S): Ogawa and Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

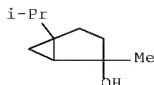
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2006104070	A	20060420	JP 2004-288901	20040930
PRIORITY APPLN. INFO.:			JP 2004-288901	20040930
OTHER SOURCE(S):	MARPAT 144:419073			

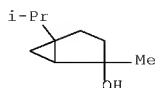
AB The invention relates to agents characterized by containing quinic acid derivs. for enhancing effect of refreshing/cooling agents, e.g. menthol and camphor, etc.,. The quinic acid derivs. may be obtained from tea leaf exts. or coffee bean extract hydrolyzates. A method for manufacturing the agents by using cation exchangers, and oral and oral cavity compns. containing the agents are also disclosed.

- CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 17, 63
- IT Cosmetics
(cleansing; quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT Cosmetics
(creams; quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT Cosmetics
(emulsions; quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT Cosmetics
(lotions; quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT Cosmetics
(packs; quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT Adsorbents
Bath preparations
Candy
Cation exchangers
Chewing gum
Flavoring materials
Food
Human
Perfumes
Shampoos
(quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT 76-22-2, Camphor 80-53-5 87-28-5, Monoglycol salicylate 89-79-2, Isopulegol 89-80-5, Menthone 89-80-5D, Menthone, ketals 119-36-8, Methyl salicylate 149-32-6, Erythritol 491-04-3, Piperitol 491-07-6, Isomenthone 546-79-2, Sabinene hydrate 704-44-9D, alkanooates 905-99-7 906-33-2 1241-87-8 1490-04-6 2216-51-5 2450-53-5 3149-68-6, Methylglucoside 14534-61-3 16409-45-3, Menthylacetate 51210-01-6, 2-Hydroxymethylmenthol 57378-72-0 65560-17-0, p-Menthane-3-carboxamide 82003-87-0 87061-04-9 87061-04-9D, 1-O-alkyl derivs. 97526-56-2 108766-16-1 506412-91-5 883548-19-4
RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- IT 546-79-2, Sabinene hydrate
RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(quinic acid derivs. for enhancing effect of refreshing/cooling agents, and manufacture thereof)
- RN 546-79-2 CAPLUS
- CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



ACCESSION NUMBER: 2006:363279 CAPLUS Full-text
 DOCUMENT NUMBER: 144:389592
 TITLE: Quinic acid derivatives for enhancing effect of
 sensory-stimulating agents, and manufacture thereof
 INVENTOR(S): Matsumoto, Katsuyuki; Takabayashi, Tadashi; Abe,
 Shinobu
 PATENT ASSIGNEE(S): Ogawa and Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006104071	A	20060420	JP 2004-288909	20040930
PRIORITY APPLN. INFO.: JP 2004-288909 20040930				
OTHER SOURCE(S): MARPAT 144:389592				
AB	The invention relates to agents characterized by containing quinic acid derivs. for enhancing effect of sensory-stimulating agents, e.g. menthol and capsaicine, etc.,. The quinic acid derivs. may be obtained from tea leaf exts. or coffee bean extract hydrolyzates. A method for manufacturing the agents by using cation exchangers, and oral, oral cavity, and topical compns. containing the agents are also disclosed.			
CC	17-6 (Food and Feed Chemistry) Section cross-reference(s): 62			
IT	Adsorbents Allium sativum Candy Capsicum Cation exchangers Chewing gum Flavoring materials Food Human Mouthwashes Perfumes Salad dressings Wasabia japonica Zingiber officinale (quinic acid derivs. for enhancing effect of sensory-stimulating agents, and manufacture thereof)			
IT	76-22-2 89-79-2 89-80-5 94-62-2, Piperine 121-33-5D, Vanillin, derivs. 122-48-5, Gingerone 404-86-4, Capsaicine 491-04-3 491-07-6 504-97-2, Sanshool 546-79-2 905-99-7 906-33-2 1241-87-8 1490-04-6 2216-51-5 2450-53-5 14534-61-3 16409-45-3 17162-29-7, Menthyl lactate 39711-79-0, N-Ethyl-p-Menthane-3-carboxamide 57378-72-0 58253-27-3, Gingerol 87061-04-9 108766-16-1 RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); USES (Uses) (quinic acid derivs. for enhancing effect of sensory-stimulating agents, and manufacture thereof)			
IT	546-79-2 RL: COS (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); USES (Uses) (quinic acid derivs. for enhancing effect of sensory-stimulating agents, and manufacture thereof)			
RN	546-79-2 CAPLUS			
CN	Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)			



L39 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:103422 CAPLUS Full-text
 DOCUMENT NUMBER: 144:176961
 TITLE: Novel aldehydic musks and their derivatives as aroma chemicals
 INVENTOR(S): Turin, Luca
 PATENT ASSIGNEE(S): Flexitral, Inc., USA
 SOURCE: PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006012215	A1	20060202	WO 2005-US22279	20050624
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005267278	A1	20060202	AU 2005-267278	20050624
CA 2571353	A1	20060202	CA 2005-2571353	20050624
EP 1771540	A1	20070411	EP 2005-762498	20050624
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1993454	A	20070704	CN 2005-80026846	20050624
JP 2008504402	T	20080214	JP 2007-518270	20050624
KR 2007036072	A	20070402	KR 2006-727139	20061222
IN 2006MN01601	A	20070615	IN 2006-MN1601	20061222
MX 200700307	A	20070814	MX 2007-307	20070108
PRIORITY APPLN. INFO.:				
			US 2004-582219P	P 20040624
			WO 2005-US22279	W 20050624

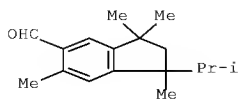
OTHER SOURCE(S): MARPAT 144:176961

AB A compound comprising a Schiff's base of an aldehydic musk aromachem. with a substantially nonvolatile, odorless amine, wherein the imine moiety of said Schiff's base compound is stable against oxidation to a carboxyl group or a mixture of said compds. is described. The Schiff's base compound is biodegradable over time to the aldehydic musk and the nonvolatile, odorless amine. Compns., products, prepn.s. or articles, such as cosmetics, beverages, and laundry products having improved aroma, fragrance or odor characteristics containing as active ingredient such compound or mixture of compds., the

aldehydic musks themselves, methods for the preparation of the Schiff's bases, and methods of imparting fragrance characteristics to substrates are also provided. Thus, a mixture of the amine and musk aldehyde was stirred in a suitable solvent (e.g., ethanol, dipropylene glycol, diisopropyl myristate) until imine formation was complete. Additives, such as acids (e.g., p-toluenesulfonic acid) and dehydrating agents (e.g., mol. sieves/sodium sulfate/magnesium sulfate) may be used to accelerate the reaction. Elevated temps. can be employed also to improve the condensation. When complete, the reaction was worked up in an appropriate manner (e.g., filtering to remove insol. additives/washing to remove additives) and concentrated to yield the product.

- IC ICM C11D007-22
ICS C11D007-26; C11D007-32; C11D007-40; C11B009-00
- CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 17, 25, 46, 63
- IT Bath preparations
(gels; stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- IT Detergents
(laundry, granular; stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- IT Detergents
(laundry, liquid; stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- IT Air fresheners
Antiperspirants
Beverages
Bleaching agents
Chewing gum
Colognes
Cosmetics
Deodorants (personal)
Disinfectants
Fabric softeners
Flavoring materials
Food additives
Hair preparations
Musks
Odor and Odorous substances
Perfumes
Shampoos
Solvents
Stabilizing agents
(stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- IT 4755-88-8 17610-07-0 17610-15-0 58243-85-9 68858-00-4 99758-39-1
127459-61-4 140478-12-2 167254-80-0
RL: COS (Cosmetic use); FFD (Food or feed use); RCT (Reactant);
TEM (Technical or engineered material use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- IT 140478-12-2
RL: COS (Cosmetic use); FFD (Food or feed use); RCT (Reactant);
TEM (Technical or engineered material use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(stabilization of aldehydic musks for fragrances and flavorings with improved aroma)
- RN 140478-12-2 CAPLUS
- CN 1H-Indene-5-carboxaldehyde, 2,3-dihydro-1,3,3,6-tetramethyl-1-(1-

methylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:29360 CAPLUS Full-text
 DOCUMENT NUMBER: 144:134735
 TITLE: Use of 3-mercapto-3-methyl-hexan-1-ol for use as
 malodor standard to test the perspiration odor-masking
 of fragrances
 INVENTOR(S): Finke, Anja; Sabater-Luntzel, Christopher; Widder,
 Sabine; Bertram, Heinz-Jurgen
 PATENT ASSIGNEE(S): Symrise Gmbh & Co. KG, Germany
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006003053	A1	20060112	WO 2005-EP52244	20050517
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102004031589 A1 20060216 DE 2004-102004031589 20040630 EP 1763373 A1 20070321 EP 2005-749742 20050517 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR US 20070298994 A1 20071227 US 2007-571494 20070829 PRIORITY APPLN. INFO.: DE 2004-102004031589A 20040630 WO 2005-EP52244 W 20050517				
AB The invention relates to the use of 3-mercapto-3-methyl-hexan-1-ol as malodor standard The use of said standard allows determination of particularly effective perspiration odor-masking fragrant compns. The invention also relates to a method for examining to what extent the perspiration odor is masked, to a method for producing perspiration odor-masking fragrant compns. and to body care products and air fresheners containing said compns.				
IC ICM A61K007-38 ICS A61L009-00				

CC 62-5 (Essential Oils and Cosmetics)

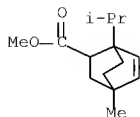
IT Air fresheners
Antiperspirants
Deodorants (personal)
Odor and Odorous substances
Perfumes
Sweat
(3-mercapto-3-Me-hexan-1-ol as malodor standard in testing the perspiration odor-masking of fragrances)

IT 78-70-6, LINALOol 80-27-3 87-20-7 91-51-0 93-92-5 97-53-0,
EUGENol 103-45-7 105-95-3, 1,4-Dioxacycloheptadecane-5,17-dione
106-02-5, 1,15-PentAdecanolIdE 106-25-2, NERol 110-41-8,
2-Methylundecanal 111-27-3, 1-Hexanol, biological studies 112-31-2,
Decanal 112-45-8, 10-Undecenal 120-57-0, 3,4-
MethylENedioxyBENZALDEHYDe 121-32-4, 3-Ethoxy-4-hydroxyBENZALDEHYDe
123-11-5, 4-MethoxyBENZALDEHYDe, biological studies 123-68-2,
AllylCAPRONATE 123-92-2, Acetic acid-3-methylbutyl ester 127-51-5
137-03-1, 2-HeptylcyclopentanoNe 142-19-8, AllylheptylATe 950-33-4,
CyclododecanoNedimethylKETAL 1222-05-5 1576-77-8 1646-26-0,
2-Acetylbenzofuran 1900-69-2 2050-08-0 2705-87-5 2986-54-1,
Cyclododecylmethyl ether 3155-71-3 3664-64-0 4395-92-0 4707-47-5
5365-06-0 5533-03-9, 2-Methoxy-4-methoxymethylphenol 5635-98-3,
2-Methoxymethylphenol 6259-76-3 6728-26-3 6784-13-0 7011-83-8
7380-40-7, BERGAMOTTin 7403-42-1, 4-Methyl-4-phenyl-2-pentanoNe
7492-37-7 7492-66-2 7492-67-3 10339-55-6 10528-67-3,
 α -Methyl-cyclohexanepropanol 15890-36-5, trans-4-
Isopropylcyclohexanol 17302-28-2 20777-40-6 21145-77-7,
6-Acetyl-1,1,2,4,4,7-hexamethylTETRALIN 25634-93-9, 2-Methyl-5-
phenylpentanol 27539-94-2 27575-61-7 27606-09-3 33662-58-7
35044-59-8 35206-51-0 39255-32-8 39872-57-6 43052-87-5,
 α -DAMASCONe 51352-68-2 51566-62-2, 3,7-Dimethyl-6-octeneNITRIle
53243-60-0 54082-68-7, 2,6,10-Trimethyl-5,9-undecadienAL 54089-83-7
67634-15-5 67663-01-8 67715-80-4 67890-78-2 68039-69-0
68039-73-6 68901-15-5 69929-17-5 73516-86-6 74338-72-0,
2,4,4,7-Tetramethyl-6-octen-3-ONe 85409-36-5 86115-11-9 93981-50-1
97384-48-0 103694-68-4, 2,2-Dimethyl-3-(3-methylphenyl)propanol
104178-52-1 105304-54-9 106155-00-4 106185-75-5 109561-08-2
142653-61-0 145547-49-5 145547-50-8 188357-49-5 188716-52-1
398509-46-1 398509-47-2 436099-47-7 643094-58-0 643094-59-1
676125-00-1 836640-46-1 873110-94-2 873110-95-3 873110-96-4
873110-97-5 873110-98-6 873199-32-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(effective substance when compared with; 3-mercapto-3-Me-hexan-1-ol as
malodor standard in testing the perspiration odor-masking of fragrances)

IT 67890-78-2
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(effective substance when compared with; 3-mercapto-3-Me-hexan-1-ol as
malodor standard in testing the perspiration odor-masking of fragrances)

RN 67890-78-2 CAPLUS

CN Bicyclo[2.2.2]oct-5-ene-2-carboxylic acid, 4-methyl-1-(1-methylethyl)-,
methyl ester (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1291839 CAPLUS Full-text
 DOCUMENT NUMBER: 144:40362
 TITLE: Menthol derivative and cooling agent composition
 comprising the same
 INVENTOR(S): Ishida, Kenya; Aida, Takashi; Matsuda, Hiroyuki;
 Yanaka, Fumihito
 PATENT ASSIGNEE(S): Takasago International Corporation, Japan
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115325	A1	20051208	WO 2005-JP10282	20050530
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2005343915	A	20051215	JP 2004-161768	20040531
EP 1761238	A1	20070314	EP 2005-745816	20050530
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
CN 1950057	A	20070418	CN 2005-80014806	20050530
KR 2007023707	A	20070228	KR 2006-724580	20061123
US 20070225378	A1	20070927	US 2006-628086	20061130
PRIORITY APPLN. INFO.:			JP 2004-161768	A 20040531
			WO 2005-JP10282	W 20050530

OTHER SOURCE(S): MARPAT 144:40362

AB The invention relates to menthol derivs. that are excellent in a cooling effect and cool retaining effect, cooling agent compns. comprising the menthol derivs., and sensory stimulation agent compns. containing the cooling agent compns., as well as fragrance compns., beverage or food products, cosmetic products, toiletry products, bathing agents, and pharmaceutical products containing the cooling agent compns. or sensory stimulation agent compns. Thus, 1-menthol (100.0 g, 0.64 mol) reacted with ethylene oxide (57 g) at 5 to

100° to obtain 123.1 g of 1-menthyloxyethanol (47.4% yield). L-menthyloxyethanol obtained (21.2 g, 1.05 equiv) was esterified with methanesulfonyl chloride (22.92 g, 1.0 equiv) to give 48.0 g of 1-menthoxyethyl methanesulfonate (86.2% yield). Ethylene glycol (49.6 g, 0.8 mmol) in DMF was dropwise added to a mixture of 60% NaH (4.4 g, 0.11 mol) and 50 mL of DMF under stirring and then the resulting mixture was stirred at a room temperature for 1 h. Thereafter the mixture was heated to 70 to 74° and 1-menthyloxyethyl methanesulfonate obtained (27.8 g, 0.1 mol) was dropwise added and stirred for 3 h at this temperature, the reaction mixture was cooled to a room temperature to give 21.5 g of 2-(2-l-menthyloxyethyl)ethanol (88.0% yield), that showed excellent cool and refreshing feeling quality at 20 ppm in expert panelists. Synergistic effects of mixts. of 1-menthol and 2-(2-l-menthyloxyethyl)ethanol at 7:3 and 9:1 ratio in 1000 mL in the intensity of the cool and refreshing feeling quality after oral administration at 20 ppm was observed 2-(2-l-menthyloxyethyl)ethanol obtained was formulated into fragrance, body shampoo, shampoo, and toothpaste compns.

IC ICM A61K007-48

ICS A61K007-46; A61K007-16; C07C043-196; C07C043-184

CC 62-1 (Essential Oils and Cosmetics)

Section cross-reference(s): 17, 24, 63

IT Bath preparations

Beverages

Cosmetics

Drug delivery systems

Food additives

Perfumes

Shampoos

(menthol derivs. and cooling agent compns. for cosmetic, food and pharmaceutical products)

IT 76-22-2, Camphor 89-79-2, Isopulegol 89-80-5, Menthone 94-62-2, Piperine 404-86-4, Capsaicin 470-82-6, Cineole 495-91-0, Chavicine 529-02-2, Pulegol 2444-46-4, Nonylic vanillylamide 13184-86-6, Vanillyl ethyl ether 17162-29-7, Menthyl lactate 25394-57-4, Spilanthal 42822-86-6, p-Menthane-3,8-diol 58253-27-3, Gingerol 65560-17-0D, p-Menthane-3-carboxamide, N-alkyl derivs. 68527-74-2, Vanillin propylene glycol acetal 75443-64-0 81995-38-2, Vanillyl propyl ether 82654-98-6, Vanillyl butyl ether 110866-25-6, Sanshool I 195863-84-4 207792-35-6, 3-L-Menthoxyp propane-1,2-diol 207844-02-8 207844-03-9 207844-04-0 207844-07-3 214220-84-5 233759-26-7 351420-48-9 351420-50-3 352515-13-0, Sanshool II 374629-79-5 870719-63-4 870719-64-5

RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(menthol derivs. and cooling agent compns. for cosmetic, food and pharmaceutical products)

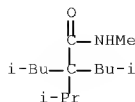
IT 870719-63-4

RL: COS (Cosmetic use); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(menthol derivs. and cooling agent compns. for cosmetic, food and pharmaceutical products)

RN 870719-63-4 CAPLUS

CN Pentanamide, N,4-dimethyl-2-(1-methylethyl)-2-(2-methylpropyl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:219710 CAPLUS Full-text
 DOCUMENT NUMBER: 142:266346
 TITLE: Cosmetic liniment compositions containing antiseptic/antifungal agent
 INVENTOR(S): Ogawa, Shigeyuki; Asaka, Yoshio
 PATENT ASSIGNEE(S): Japan
 SOURCE: U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 537,261.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050053630	A1	20050310	US 2003-623174	20030721
JP 2000281558	A	20001010	JP 1999-87741	19990330
JP 3649619	B2	20050518		
JP 2000281520	A	20001010	JP 1999-89072	19990330
JP 3649620	B2	20050518		
US 6620418	B1	20030916	US 2000-537261	20000329
PRIORITY APPLN. INFO.:			JP 1999-87741	A 19990330
			JP 1999-89072	A 19990330
			JP 2000-87461	A 20000118
			US 2000-537261	A2 20000329
			JP 2000-8746	A 20000118

AB A method of preserving a cosmetic is provided, comprising mixing into the cosmetic a substantially paraben-free endermic liniment composition comprising, an antiseptic/antifungal agent for inhibition of microbial growth in cosmetics. The antiseptic/antifungal agent comprises 2-n-butyl-2-ethyl-1,3-propanediol 0.1-3, 1,3-butylene glycol 2.0-5.0 weight%, and water. Alternatively, the antiseptic/antifungal agent may comprise 0.1-3.0 weight% 2,2-diallyl-1,3-propanediol and 0.1-15.0 weight% of a diol. Thus, a lotion contained 2,2-diethyl-1,3-propanediol 1.0, PEG oleyl ether 0.5, PEG 1.0, EtOH 8.0, glycerin 3.0, lactic acid 0.02, 50% aqueous solution of sodium lactate 0.25, trisodium edetate 0.1 and water qs to 100%.

IC ICM A61K007-00

INCL 424401000

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 1, 63

IT Antibacterial agents

Cosmetics

Fungicides

Perfumes

Preservatives

Skin

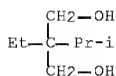
(cosmetic liniment comps. containing antiseptic/antifungal agent)

IT 57-55-6, Propylene glycol, biological studies 107-88-0, 1,3-Butylene glycol 115-76-4, 2,2-Diethyl-1,3-propanediol 115-84-4, 2-Butyl-2-ethyl-1,3-propanediol 584-03-2, 1,2-Butylene glycol 625-69-4, 2,4-Pentanediol 626-95-9, 2,5-Pentanediol 629-11-8, 1,6-Hexylene glycol 1462-10-8, 2-Methyl-2,5-Pentanediol 5343-92-0, 1,2-Pentanediol 6920-22-5, 1,2-Hexylene glycol 24765-55-7, 1,3-Propanediol, 2-ethyl-2-isopropyl- 25265-71-8, DiPropylene glycol 25450-88-8 53020-37-4, 1,3-Propanediol, 2,2-diisopropyl- 56539-66-3, 3-Methyl-3-methoxybutanol 299171-88-3, 1,3-Propanediol, 2-butyl-2-(1-methyleth)yl-
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (cosmetic liniment compns. containing antiseptic/antifungal agent)

IT 24765-55-7, 1,3-Propanediol, 2-ethyl-2-isopropyl- 299171-88-3, 1,3-Propanediol, 2-butyl-2-(1-methyleth)yl-
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (cosmetic liniment compns. containing antiseptic/antifungal agent)

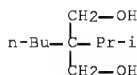
RN 24765-55-7 CAPLUS

CN 1,3-Propanediol, 2-ethyl-2-(1-methylethyl)- (CA INDEX NAME)



RN 299171-88-3 CAPLUS

CN 1,3-Propanediol, 2-butyl-2-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1016741 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 142:487108

TITLE: Tunisian aromatic waters profile

AUTHOR(S): Ayadi, A. Jmal; Ayed, N.; Karmous, T.; Bessiere, J. M.; Talou, T.

CORPORATE SOURCE: Unite de recherche 1201 de Chimie Industrielle, INSAT, Centre Urbain Nord, Tunis, 1080, Tunisia

SOURCE: Journal of Essential Oil-Bearing Plants (2004), 7(2), 136-145
 CODEN: JEOPFB; ISSN: 0972-060X

PUBLISHER: H. K. L. Bhalla

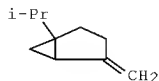
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Aromatic waters of rose, dog rose, bitter orange flowers, and geranium were prepared by traditional hydro-distillation systems. The aromatic fractions of these waters were isolated by dynamic, static headspace and by solvent extraction, and were analyzed by GC/MS. Results were compared with corresponding oils of literature.

CC 62-2 (Essential Oils and Cosmetics)

- IT Odor and Odorous substances
Rosa canina
(Tunisian aromatic waters profile)
- IT 60-12-8, 2-Phenylethanol 78-70-6, Linalool 80-56-8, α -Pinene 87-44-5, β -Caryophyllene 89-79-2, Isopulegol 89-80-5, Menthone 93-15-2, o-Methyl eugenol 97-53-0, Eugenol 98-55-5, α -Terpineol 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 99-86-5, α -Terpinene 99-87-6, p-Cymene 100-51-6, Benzyl alcohol, biological studies 103-45-7, 2-Phenylethyl acetate 103-52-6, 2-Phenylethyl butanoate 105-54-4, Ethyl butyrate 105-85-1, Citronellyl formate 105-86-2, Geranyl formate 105-87-3, Geranyl acetate 105-90-8, Geranyl propionate 106-22-9, Citronellol 106-24-1, Geraniol 106-25-2, Nerol 106-26-3, Neral 106-28-5 110-93-0, 6-Methyl-5-hepten-2-one 111-27-3, Hexanol, biological studies 111-84-2, Nonane 115-95-7, Linalyl acetate 119-36-8, Methyl salicylate 120-72-9, Indole, biological studies 123-35-3, Myrcene 123-86-4, Butyl acetate 124-18-5, Decane 127-91-3, β -Pinene 134-20-3, Methyl anthranilate 138-86-3, Limonene 140-11-4, Benzyl acetate 140-67-0, Methylchavicol 141-12-8, Neryl acetate 141-27-5, Geranial 142-92-7, Hexyl acetate 150-84-5, Citronellyl acetate 459-80-3, Geranic acid 470-82-6, 1,8-Cineole 473-13-2, α -Selinene 483-76-1, δ -Cadinene 489-39-4, Aromadendrene 489-40-7, α -Gurjunene 491-07-6, Isomenthone 515-13-9, β -Elemene 562-74-3, Terpinen-4-ol 586-62-9, Terpinolene 1120-21-4, Undecane 2142-94-1, Neryl formate 3033-23-6, cis-Rose oxide 3338-55-4 3387-41-5, Sabinene 3681-71-8 3779-61-1 3856-25-5, α -Copaene 4179-19-5, 3,5-Dimethoxytoluene 5208-59-3, β -Bourbonene 5258-11-7, trans-Rose oxide 6753-98-6, α -Humulene 7212-44-4, Nerolidol 11063-77-7, cis-Linalool oxide 11063-78-8, trans-Linalool oxide 13466-78-9 13744-15-5, β -Cubebene 17066-67-0, β -Selinene 18252-44-3, β -Copaene 20307-84-0, δ -Elemene 23986-74-5, Germacrene-D 24703-35-3, Bicyclogermacrene 25246-27-9, Alloaromadendrene 30021-74-0, γ -Muurolene 39029-41-9, γ -Cadinene 55719-85-2, Phenylethyl tiglate 65416-59-3, Vitispirane 117066-77-0, epi- γ -Eudesmol
RL: ANT (Analyte); COS (Cosmetic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Tunisian aromatic waters profile)
- IT 3387-41-5, Sabinene
RL: ANT (Analyte); COS (Cosmetic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Tunisian aromatic waters profile)
- RN 3387-41-5 CAPLUS
- CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

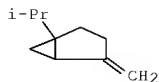
ACCESSION NUMBER: 2004:681316 CAPLUS Full-text
 DOCUMENT NUMBER: 141:203532
 TITLE: Cloning and characterization of terpene synthase genes from strawberry and use thereof in preparation of flavors, fragrances, and biocontrol agents
 INVENTOR(S): Aharoni, Asaph; Jongsma, Maarten Anthonie; Verhoeven, Henricus Andrianus; Bouwmeester, Hendrik Jan
 PATENT ASSIGNEE(S): Plant Research International B.V., Neth.
 SOURCE: U.S. Pat. Appl. Publ., 127 pp., Cont.-in-part of WO 2002 64,764.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040161819	A1	20040819	US 2003-635223	20030805
EP 1231273	A1	20020814	EP 2001-200488	20010212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002064764	A2	20020822	WO 2002-NL89	20020212
WO 2002064764	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GG, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			EP 2001-200488	A 20010212
			WO 2002-NL89	A2 20020212

AB The invention relates to the field of genetic engineering of flavor, fragrance and bio-control agent development. More specifically it relates to a process for production of natural flavors, fragrances or bio-control agents by the control of one or more genes implicated in that process. The invention provides an isolated or recombinant nucleic acid or functional fragment thereof encoding a proteinaceous mol. essentially capable of flavor, fragrance and/or bio-control agent synthesis when provided with a suitable substrate under appropriate reaction conditions. The invention further provides a nucleic acid or functional fragment thereof encoding a proteinaceous mol. essentially capable of synthesizing at least a monoterpene alc. linalool when contacted with geranyl diphosphate (GPP) and/or at least a sesquiterpene alc. nerolidol when contacted with farnesyl diphosphate (FPP) under appropriate reaction conditions. Specifically, cDNA sequences for two terpene synthase genes: H64 and SOS, are isolated from strawberry cultivar Elsanta and wild strawberry Vesca. H64 cDNA isolated from the cultivated strawberry cultivar Elsanta (ripe red fruit) cDNA library is 1874 bp long and contains a open reading frame (ORF) encoding a 519 amino acids (aa) protein. The full length wild strawberry cDNA (cultivar Vesca) is 1894 bp long and contains a open reading frame encoding a 580 amino acids protein. The patent also provides and claim a site-directed mutagenesis variant H64MUT of the shorter gene H64 (519 aa) by changing its upstream in-frame stop codon (TGA) into a leucine residue (CTA), which is 1659 bp long containing a 552 aa long protein. The cDNAs of SOS gene half-size truncation proteins: SOSA(MA), SOSA(WS), are isolated, which are resulted from two cytosine insertion and frameshift mutation. By

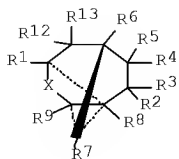
removing the CC insertion from the SOSA(WS, wild strawberry) and SOSA(MA, cultivar Elsanta) genes, cDNAs containing ORFs encoding 554 and 555 aa resp. are identified. The claimed full length SOS homolog from the wild strawberry (SOSV) is 1973 bp long and contains a ORF encoding a 556 aa long protein. The pool of sesquiterpene precursors in the mitochondria are shown to be increased by inducing or repressing any of the genes or the corresponding enzymic steps of either the cytosolic or the plastidic or the mitochondrial isoprenoid biosynthetic pathway. And related transgenic plants also show improved biol. control of pests, resistance to micro-organisms, and insect resistance.

- IC ICM C07H021-04
ICS C12N009-10
- INCL 435069100; 435193000; 435320100; 435325000; 536023200
- CC 11-2 (Plant Biochemistry)
Section cross-reference(s): 3, 5, 7, 17, 62
- IT Cosmetics
(cleansing, manufacture of terpenes for; cloning and characterization of terpene synthase genes from strawberry and use thereof in preparation of flavors, fragrances, and biocontrol agents)
- IT Cosmetics
(creams, manufacture of terpenes for; cloning and characterization of terpene synthase genes from strawberry and use thereof in preparation of flavors, fragrances, and biocontrol agents)
- IT Cosmetics
Dietary supplements
Disinfectants
Fungicides
Health products
Preservatives
Sunscreens
(manufacture of terpenes for; cloning and characterization of terpene synthase genes from strawberry and use thereof in preparation of flavors, fragrances, and biocontrol agents)
- IT Flavoring materials
Odor and Odorous substances
Pesticides
(preparation of components of; cloning and characterization of terpene synthase genes from strawberry and use thereof in preparation of flavors, fragrances, and biocontrol agents)
- IT 80-56-8P, α -Pinene 98-55-5P, α -Terpineol 99-83-2P,
 α -Phellandrene 99-85-4P, γ -Terpinene 123-35-3P,
 β -Myrcene 127-91-3P, β -Pinene 555-10-2P, β -Phellandrene
586-62-9P 3387-41-5P, Sabinene 18479-58-8P, Dihydromyrcenol
RL: AGR (Agricultural use); BMF (Bioindustrial manufacture); COS
(Cosmetic use); FFD (Food or feed use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(cloning of genes for enzymes of biosynthesis of; cloning and
characterization of terpene synthase genes from strawberry and use
thereof in preparation of flavors, fragrances, and biocontrol agents)
- IT 3387-41-5P, Sabinene
RL: AGR (Agricultural use); BMF (Bioindustrial manufacture); COS
(Cosmetic use); FFD (Food or feed use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
(cloning of genes for enzymes of biosynthesis of; cloning and
characterization of terpene synthase genes from strawberry and use
thereof in preparation of flavors, fragrances, and biocontrol agents)
- RN 3387-41-5 CAPLUS
- CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)

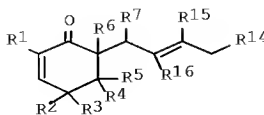


L39 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:2827 CAPLUS Full-text
 DOCUMENT NUMBER: 140:59802
 TITLE: Preparation of of bi- and tricyclic alcohols and ketones and odorant compositions containing them
 INVENTOR(S): Goeke, Andreas
 PATENT ASSIGNEE(S): Givaudan SA, Switz.
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

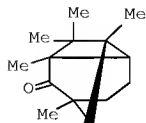
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000776	A1	20031231	WO 2003-CH401	20030620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003240348	A1	20040106	AU 2003-240348	20030620
EP 1515938	A1	20050323	EP 2003-729764	20030620
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1662483	A	20050831	CN 2003-814559	20030620
JP 2005529961	T	20051006	JP 2004-514504	20030620
MX 2004PA12277	A	20050225	MX 2004-PA12277	20041207
IN 2004CN02866	A	20060217	IN 2004-CN2866	20041216
US 20050239683	A1	20051027	US 2004-518565	20041220
PRIORITY APPLN. INFO.:			GB 2002-14344	A 20020621
			WO 2003-CH401	W 20030620
OTHER SOURCE(S):			CASREACT 140:59802; MARPAT 140:59802	
GI				



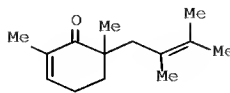
I



II



III



IV

AB Novel compds. I [X = (CR10R11)_n; R1, R4, R6, R7 = H, Me, Et; R2, R3 = H, C1-5-alkyl; R2R3 = 5- or 6-membered cycloalkyl ring; R5 = H, C1-4-alkyl; R8 = H, branched C3-7-alkyl; R9 = H, Me, Et, branched C3-7-alkyl; R10 = Et, Pr; R11 = C1-4-alkyl; R12 = OH; R13 = H, C1-4-alkyl; CR12R13 = C=O; the dashed line = single or no bond; with the proviso that: (a) when {C(5) & C(8)} and {C(9) & C(6)} are each connected by a single bond, then C(9) and C(5) are not connected; n = 1; R7 = R8 = H; R9 = H, Me, Et; (b) when {C(5) & C(8)} and {C(9) & C(6)} are each connected by a single bond, then C(9) and C(5) are not connected; n = 0; R7 = R8 = H; R9 = branched C3-7-alkyl; or (c) when {C(5) & C(8)} are not connected, then then C(9) and C(5) are connected by a single bond; n = 0; R7 = H, Me, Et; R8 = branched C3-7-alkyl; R7R8 = 5- or 6-membered cycloalkyl ring; then C(6) and C(8) may be connected with a single or double bond] and their use in flavor and fragrance compns. Also provided is a method for the preparation of I comprising cyclization of cyclohexenone derivative II [R1, R4, R6 = H, Me, Et; R2, R3 = H, C1-5-alkyl; R2R3 = 5- or 6-membered cycloalkyl ring; R5 = H, C1-5-alkyl; R7, R14 = H, Me, Et; R7R14 = 5- or 6-membered cycloalkyl ring; R16 = H, branched C3-7-alkyl] with EtAlCl₂ or MeAlCl₂, optionally followed by a reduction or alkylation of the C(1)-carbonyl; or a process comprising a photochem.-induced cyclization of cyclohexenone II [R1, R4, R6, R7, R14 = H, Me, Et; R2, R3, R16 = H; R5 = H, linear or branched C1-4-alkyl; R7R14 = 5- or 6-membered cycloalkyl ring; R15 = linear or branched C1-4-alkyl] followed by a hydrogenation across the double bond at C(6)-C(8), optionally followed by a reduction or alkylation of the C(1)-carbonyl. Thus, 1,5,7,8,8-pentamethyltricyclo[3.3.1.0^{2,7}]nonan-6-one [III] was prepared as a mixture with 5-(tert-butyl)-1,3-dimethylbicyclo[^{1,2}]oct-3-en-2-one from 2,6-dimethyl-6-(2,3-dimethyl-2-butenyl)cyclohex-2-enone [IV] via cyclization with EtAlCl₂ in PhMe. The olfactive properties of III [woody, patchouli odor] were determined. A formulation for a shower gel with a woody-floral character containing III is described.

IC ICM C07C049-443

ICS C07C049-633; C07C049-453; C07C049-643; C07C035-37; C11B009-00; A61K007-46

CC 30-15 (Terpenes and Terpenoids)

Section cross-reference(s): 17, 24, 62, 63

IT Flavoring materials

(for pharmaceuticals and food; preparation of bi- and tricyclic alcs.

and

ketones and their use in flavor and fragrance compns.)

IT Bath preparations
(gels, odorants for; preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

IT Chemicals
(household, odorants for; preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

IT Cosmetics
Deodorants (personal)
Laundering
(odorants for; preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

IT Odor and Odorous substances
Perfumes
(preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

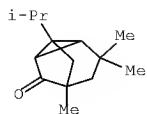
IT 639060-91-6P, 1,5,7,8,8-Pentamethyltricyclo[3.3.1.0^{2,7}]nonan-6-one
639060-93-8P, 1,3,3,5,7,8,8-Heptamethyltricyclo[3.3.1.0^{2,7}]nonan-6-one
639060-94-9P, 3,3,5,7,8,8-Hexamethyltricyclo[3.3.1.0^{2,7}]nonan-6-one
639060-96-1P, 3,3,5,8,8-Pentamethyltricyclo[3.3.1.0^{2,7}]nonan-6-one
639061-00-0P, 1-Isopropyl-3,3,5-trimethyltricyclo[3.2.1.0^{2,7}]octan-6-one
639061-04-4P, 5-Isopropyl-1,3-dimethyl[3.2.1]octan-2-one
639061-06-6P, 5-(tert-Butyl)-1,3-dimethylbicyclo[]oct-3-en-2-one
639061-08-8P, 5-(sec-Butyl)-1,3-dimethylbicyclo[]oct-3-en-2-one
639061-10-2P, 5-Isopropyl-3-methylbicyclo[]oct-3-en-2-one
639061-12-4P, 5,7-Diisopropyl-3-methylbicyclo[]oct-3-en-2-one
639061-14-6P, 5-Isopropyl-3,7,7-trimethylbicyclo[3.3.1.0^{2,7}]oct-3-en-2-one
639061-16-8P, 1,3,5-Trimethyl-1,5,6,7,8,8a-hexahydro-1,4a-ethanonaphthalen-2-one
639061-18-0P, 5,6,7,8,8-Pentamethyltricyclo[3.3.1.0^{2,7}]nonan-6-ol
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

IT 639061-02-2P, 5-Isopropyl-1,3-dimethyl[3.2.1]oct-3-en-2-one
RL: COS (Cosmetic use); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation, hydrogenation and olfactive properties of; preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

IT 639061-00-0P, 1-Isopropyl-3,3,5-trimethyltricyclo[3.2.1.0^{2,7}]octan-6-one
639061-04-4P, 5-Isopropyl-1,3-dimethyl[3.2.1]octan-2-one
639061-10-2P, 5-Isopropyl-3-methylbicyclo[]oct-3-en-2-one
639061-12-4P, 5,7-Diisopropyl-3-methylbicyclo[]oct-3-en-2-one
639061-14-6P, 5-Isopropyl-3,7,7-trimethylbicyclo[3.3.1.0^{2,7}]oct-3-en-2-one
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of of bi- and tricyclic alcs. and ketones and their use in flavor and fragrance compns.)

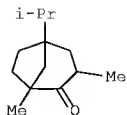
RN 639061-00-0 CAPLUS

CN Tricyclo[3.2.1.0^{2,7}]octan-6-one, 3,3,5-trimethyl-1-(1-methylethyl)- (9CI)
(CA INDEX NAME)



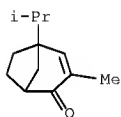
RN 639061-04-4 CAPLUS

CN Bicyclo[3.2.1]octan-2-one, 1,3-dimethyl-5-(1-methylethyl)- (CA INDEX NAME)



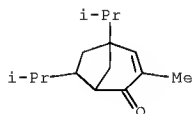
RN 639061-10-2 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 3-methyl-5-(1-methylethyl)- (CA INDEX NAME)



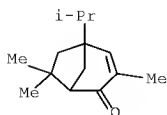
RN 639061-12-4 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 3-methyl-5,7-bis(1-methylethyl)- (CA INDEX NAME)

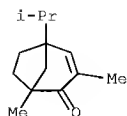


RN 639061-14-6 CAPLUS

CN Bicyclo[3.2.1]oct-3-en-2-one, 3,7,7-trimethyl-5-(1-methylethyl)- (CA INDEX NAME)



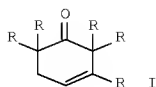
IT 639061-02-2P, 5-Isopropyl-1,3-dimethyl[3.2.1]oct-3-en-2-one
 RL: COS (Cosmetic use); PRP (Properties); RCT (Reactant); SPN
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT
 (Reactant or reagent); USES (Uses)
 (preparation, hydrogenation and olfactive properties of; preparation of of
 bi- and tricyclic alcs. and ketones and their use in flavor and fragrance
 compns.)
 RN 639061-02-2 CAPLUS
 CN Bicyclo[3.2.1]oct-3-en-2-one, 1,3-dimethyl-5-(1-methylethyl)- (CA INDEX
 NAME)



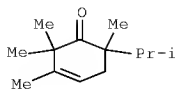
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:950967 CAPLUS Full-text
 DOCUMENT NUMBER: 140:4803
 TITLE: Preparation of hindered 2,2,3,6,6-pentaalkyl-3-
 cyclohexen-1-ones as perfuming ingredients
 INVENTOR(S): Huboux, Alexandre
 PATENT ASSIGNEE(S): Firmenich SA, Switz.
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003099754	A1	20031204	WO 2003-IB1813	20030501
W: JP, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
EP 1511709	A1	20050309	EP 2003-717493	20030501
EP 1511709	B1	20080213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
JP 2005527616	T	20050915	JP 2004-507412	20030501
JP 4029088	B2	20080109		
AT 386008	T	20080315	AT 2003-717493	20030501
US 20050043211	A1	20050224	US 2004-952462	20040928
US 7157417	B2	20070102		
PRIORITY APPLN. INFO.:			WO 2002-IB1961	A 20020529
			WO 2003-IB1813	W 20030501
OTHER SOURCE(S):			MARPAT 140:4803	
GI				



- AB Hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones [I; R = C1-4 (un)branched alkyl], useful as perfuming ingredients in perfumed articles, cosmetics, or perfuming compns., are prepared and I-containing fragrant formulations presented. Thus, 3-isopropyl-6-methyl-3-cyclohexen-1-one was methylated with iodomethane in the presence of potassium hydride to give 3-isopropyl-2,2,6,6-tetramethyl-3-cyclohexen-1-one in 78% yield.
- IC ICM C07C049-603
ICS C11B009-00; A61K007-46
- CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 46, 62
- IT Bath preparations
(gels; preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients for use in)
- IT Bath preparations
(oils; preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients for use in)
- IT Odor and Odorous substances
(preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients)
- IT Air fresheners
Antiperspirants
Bath preparations
Bleaching agents
Colognes
Cosmetics
Deodorants
Detergents
Fabric softeners
Hair preparations
Perfumes
Shampoos
(preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients for use in)
- IT 628280-45-5P 628280-46-6P
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients)
- IT 628280-46-6P
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hindered 2,2,3,6,6-pentaalkyl-3-cyclohexen-1-ones as perfuming ingredients)
- RN 628280-46-6 CAPLUS
- CN 3-cyclohexen-1-one, 2,2,3,6-tetramethyl-6-(1-methylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:371661 CAPLUS Full-text
 DOCUMENT NUMBER: 138:390526
 TITLE: Odor masking compositions containing fragrant substances for hair cosmetics
 INVENTOR(S): Kawasaki, Kiyomitsu
 PATENT ASSIGNEE(S): Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 81 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003137758	A	20030514	JP 2001-330894	20011029
PRIORITY APPLN. INFO.:			JP 2001-330894	20011029

AB The compns., useful for permanent wave agents, hair dyes, etc., contain ≥ 1 fragrances chosen from hydrocarbons, alcs., phenols, aldehydes and/or acetals, ketones and/or ketals, ethers, synthetic musks, acids, lactones, esters, N-, S-, and/or halogen-containing compds., and natural fragrances. A fragrance composition was prepared from 1,3,5-undecatriene 10, 10-undecenol 10, 1-octen-3-ol 10, 10-undecenal 10, 2,4-decadienal 10, 1,8-cineole 10, phenylacetic acid (1%) 10, 1-ethynylcyclohexyl acetate 10, 1-octen-3-yl acetate 5, 2-ethylhexyl acetate 10, and Abies fir oil 5 weight parts.

IC ICM A61K007-46
 ICS A61K007-06; A61K007-09; A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

IT Hair preparations
 Perfumes
 Salvia
 Wintergreen
 (odor masking compns. containing fragrant substances for hair cosmetics)

IT 490-03-9 491-09-8, Piperitenone 491-35-0, 4-Methylquinoline
 495-62-5, Bisabolene 496-77-5, 5-Hydroxy-4-octanone 498-00-0, Vanillyl alcohol 498-16-8, Lavandulol 498-62-4, 3-Thiophenecarboxaldehyde
 498-66-8, Norbornene 498-81-7, Dihydro- α -terpineol 499-44-5, Hinokitiol 499-75-2, Carvacrol 500-02-7, Cryptone 501-52-0, Hydrocinnamic acid 501-92-8, Chavicol 502-41-0, Cycloheptanol 502-61-4, Farnesene 502-72-7, Cyclopentadecanone 503-74-2, Isovaleric acid 505-10-2, Methionol 505-32-8, Isophytol 511-02-4, Sclarene 513-23-5 513-85-9, Butane-2,3-diol 513-86-0, Acetoin 515-00-4, Myrtenol 515-03-7, Sclareol 515-69-5, α -Bisabolol 536-50-5, p, α -Dimethylbenzyl alcohol 536-59-4, Perilla alcohol 536-60-7, Cumin alcohol 538-86-3, Methyl benzyl ether 539-82-2, Ethyl valerate 539-88-8, Ethyl levulinate 539-90-2, Isobutyl butyrate 540-07-8, Amyl caproate 540-18-1, Amyl butyrate 540-42-1, Isobutyl propionate 541-31-1, Isoamyl mercaptan 541-91-3, Muscone 542-46-1,

Civetone 542-92-7, Cyclopentadiene, biological studies 543-39-5,
 Myrcenol 543-49-7, 2-Heptanol 544-40-1, Butyl sulfide 544-63-8,
 Myristic acid, biological studies 544-76-3, Hexadecane 546-79-2
 , Sabinene hydrate 547-63-7, Methyl isobutyrate 547-64-8, Methyl
 lactate 551-08-6 555-66-8, Shogaol 556-24-1, Methyl isovalerate
 556-82-1, 3-Methyl-2-buten-1-ol 557-00-6, Propyl isovalerate 562-74-3,
 Terpinen-4-ol 563-80-4, Methyl isopropyl ketone 583-04-0, Allyl
 benzoate 586-62-9, Terpinolene 589-35-5, 3-Methylpentanol 589-38-8,
 3-Hexanone 589-59-3, Isobutyl isovalerate 589-66-2, Isobutyl crotonate
 589-75-3, Butyl octanoate 589-82-2, 3-Heptanol 589-98-0, 3-Octanol
 590-01-2, Butyl propionate 590-86-3, Isovaleraldehyde 591-12-8,
 α -Angelica lactone 591-68-4, Butyl valerate 591-80-0,
 4-Pentenoic acid 592-84-7, Butyl formate 592-88-1, Diallyl sulfide
 593-08-8, 2-Tridecanone 593-45-3, Octadecane 600-14-6,
 2,3-Pentanedione 606-45-1, Methyl o-methoxybenzoate 607-88-5, p-Cresyl
 salicylate 611-13-2, Methyl 2-furoate 614-99-3, Ethyl 2-furoate
 616-25-1, 1-Penten-3-ol 617-35-6, Ethyl pyruvate 617-50-5, Isopropyl
 isobutyrate 620-02-0, 5-Methylfurfural 620-79-1, Ethyl
 2-benzylacetoacetate 621-82-9, Cinnamic acid, biological studies
 622-45-7, Cyclohexyl acetate 622-60-6 622-78-6, Benzyl isothiocyanate
 623-15-4, Furfuralacetone 623-17-6, Furfuryl acetate 623-22-3, Propyl
 2-furanacrylate 624-30-3 623-42-7, Methyl butyrate 624-13-5, Propyl
 octanoate 624-24-8, Methyl valerate 624-41-9, 2-Methylbutyl acetate
 624-42-0, Ethyl isoamyl ketone 624-92-0, Dimethyl disulfide 626-77-7,
 Propyl hexanoate 626-82-4, Butyl hexanoate 628-63-7, Amyl acetate
 628-97-7, Ethyl palmitate 628-99-9, 2-Nonanol 629-11-8, Hexamethylene
 glycol 629-14-1, Ethylene glycol diethyl ether 629-19-6, Dipropyl
 disulfide 629-33-4, Hexyl formate 629-50-5, Tridecane 629-59-4,
 Tetradecane 629-62-9, Pentadecane 629-78-7, Heptadecane 637-64-9,
 Tetrahydrofurfuryl acetate 638-11-9, Isopropyl butyrate 638-17-5,
 Thialdine 638-25-5, Amyl caprylate 638-49-3, Amyl formate 638-53-9,
 Tridecanoic acid 644-49-5, Propyl isobutyrate 646-07-1,
 4-Methylpentanoic acid 656-53-1 659-70-1, Isoamyl isovalerate
 673-84-7, Alloocimene 688-82-4, Heptanal diethyl acetal 693-95-8,
 4-Methyl thiazole 695-06-7, γ -Hexalactone 698-10-2 698-76-0,
 δ -Octalactone 705-73-7 705-86-2, δ -Decanolactone
 706-14-9, γ -Decalactone 710-04-3, δ -Undecalactone
 713-95-1, δ -Dodecalactone 765-05-9 774-48-1, Benzaldehyde
 diethyl acetal 818-81-5, 2-Methyloctanol 821-55-6, 2-Nonanone
 823-22-3, δ -Hexalactone 825-51-4 828-26-2, Trithioacetone
 868-57-5, Methyl 2-methylbutyrate 870-23-5, Allyl mercaptan 881-68-5,
 Acetylvanillin 925-78-0, 3-Nonanone 928-91-6, cis-4-Hexen-1-ol
 928-95-0, trans-2-Hexenol 928-96-1, cis-3-Hexen-1-ol 928-97-2,
 trans-3-Hexen-1-ol 932-92-3, Cyclohexyl ethyl ether 939-48-0,
 Isopropyl benzoate 943-88-4, 4-(4-Methoxyphenyl)-3-buten-2-one
 947-05-7, Dodecalactone 999-40-6, Neryl butyrate 1003-04-9,
 Tetrahydrothiophen-3-one 1009-11-6 1072-83-9, 2-Acetylpyrrole
 1079-01-2, Myrtenyl acetate 1113-21-9, Geranyl linalool 1117-52-8,
 Farnesylacetone 1117-55-1, Hexyl octanoate 1118-27-0, Linalyl
 isovalerate 1118-39-4, Myrcenyl acetate 1119-44-4, 3-Hepten-2-one
 1120-21-4, Undecane 1122-62-9, 2-Acetylpyridine 1123-85-9,
 2-Phenylpropyl alcohol 1124-11-4, Tetramethylpyrazine 1125-21-9,
 4-Oxoisophorone 1125-88-8, Benzaldehyde dimethyl acetal 1135-66-6,
 IsoLongifolene 1139-30-6, β -Caryophyllene oxide 1142-85-4
 1188-02-9, 2-Methylheptanoic acid 1191-04-4, 2-Hexenoic acid
 1191-16-8, Prenyl acetate 1192-62-7, 2-Acetylfuran 1193-79-9,
 2-Acetyl-5-methylfuran 1195-32-0, α -p-Dimethylstyrene 1195-92-2,
 Limonene oxide 1197-01-9 1205-17-0, Helional 1211-29-6, Methyl
 jasmonate 1222-05-5, Galaxolide 1319-88-6, Benzaldehyde glyceryl

acetal 1320-67-8, Propylene glycol monomethyl ether 1322-12-9, Ethyl octynecarbonate 1322-34-5, Methyl decynyl carbonate 1323-00-8, Santalyl acetate 1331-83-5, Anisyl acetate 1333-49-9, Dimethyloctanol 1333-58-0, Isobutylquinoline 1335-06-4, Bromostyrene 1335-46-2, Methylionone 1335-66-6, Isocyclocitral 1365-19-1, Linalool oxide 1502-22-3, 2-(1-Cyclohexen-1-yl)cyclohexanone 1504-74-1, o-Methoxycinnamic aldehyde 1551-44-6, Cyclohexyl butyrate 1576-87-0, trans-2-Pentenal 1599-47-9, Hexanal dimethyl acetal 1599-49-1 1604-28-0, 6-Methyl-3,5-heptadien-2-one 1653-30-1, 2-Undecanol 1708-34-5 1725-01-5, 1,8-Dioxacycloheptadecan-9-one 1728-46-7 1731-84-6, Methyl nonanoate 1759-28-0, 4-Methyl-5-vinylthiazole 1786-08-9, Nerol oxide 1866-31-5, Allyl cinnamate 1901-26-4, 3-Methyl-4-phenyl-3-buten-2-one 2021-28-5, Ethyl 3-phenylpropionate 2035-99-6, Isoamyl octanoate 2050-01-3, Isoamyl isobutyrate 2050-08-0, Pentyl salicylate 2051-78-7, Allyl butyrate 2052-14-4, Butyl salicylate 2052-15-5, Butyl levulinate 2084-18-6 2111-75-3, Perillaldehyde 2120-70-9, Phenoxyacetaldehyde 2142-94-1, Neryl formate 2153-26-6 2153-28-8 2173-56-0, Amyl valerate 2173-57-1 2179-57-9, Diallyl disulfide 2179-60-4, Methyl propyl disulfide 2198-61-0, Isoamyl hexanoate 2216-45-7, 4-Methylbenzyl acetate 2216-51-5 2217-33-6, Tetrahydrofurfuryl butyrate 2226-05-3 2277-19-2, cis-6-Nonenal 2294-76-0 2305-21-7, 2-Hexen-1-ol 2305-25-1, Ethyl 3-hydroxyhexanoate

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(odor masking comps. containing fragrant substances for hair cosmetics)

IT 2306-88-9, Octyl octanoate 2306-91-4, Isoamyl decanoate 2311-46-8, Isopropyl hexanoate 2311-59-3, Isopropyl decanoate 2315-68-6, Propyl benzoate 2345-24-6, Neryl isobutyrate 2345-26-8, Geranyl isobutyrate 2349-07-7, Hexyl isobutyrate 2349-14-6, Methyl geranate 2351-90-8, Ethyl 2-octenoate 2363-88-4, 2,4-Decadienal 2408-20-0, Allyl propionate 2412-80-8, Methyl isohexanoate 2432-51-1 2436-90-0, Dihydromyrcene 2437-25-4, Dodecanonitrile 2442-10-6, 1-Octen-3-yl acetate 2444-46-4, Nonanoylvanillylamide 2445-76-3, Hexyl propionate 2445-77-4, 2-Methylbutyl isovalerate 2497-18-9, trans-2-Hexenyl acetate 2568-25-4, Benzaldehyde propylene glycol acetal 2623-23-6, L-Menthyl acetate 2630-39-9, Methyl dihydrojasmonate 2639-63-6, Hexyl butyrate 2705-87-5, Allyl cyclohexanepropionate 2721-22-4, 8-Tetradecalactone 2756-56-1, Isobornyl propionate 2785-87-7, Dihydroeugenol 2785-89-9, 4-Ethylguaiacol 2807-30-9, Ethylene glycol monopropyl ether 2835-39-4, Allyl isovalerate 2847-30-5, 2-Methoxy-3-methylpyrazine 2949-92-0, S-Methyl methanethiosulfonate 2979-22-8 2983-37-1, Ethyl 2-ethylhexanoate 3142-72-1, 2-Methyl-2-pentenoic acid 3149-28-8, Methoxypyrazine 3160-37-0, Heliotropylacetone 3268-49-3, Methional 3301-94-8, 8-Nonalactone 3387-41-5, Sabinene 3391-83-1, 1,7-Dioxacycloheptadecan-8-one 3391-86-4, 1-Octen-3-ol 3452-97-9, 3,5,5-Trimethylhexanol 3454-07-7, p-Ethylstyrene 3558-60-9 3581-91-7, 4,5-Dimethylthiazole 3583-00-4, 4-Isopropyl-5,5-dimethyl-1,3-dioxane 3613-30-7, Methoxycitronellal 3658-77-3, Furanol 3658-80-8, Dimethyl trisulfide 3658-93-3, Hexanal diethyl acetal 3681-71-8, cis-3-Hexenyl acetate 3683-12-3 3779-62-2, Sinensal 3796-70-1, Geranylacetone 3848-24-6, 2,3-Hexanedione 3913-81-3 3913-85-7, 2-Decenoic acid 4230-97-1, Allyl caprylate 4265-97-8, Heptyl octanoate 4351-10-4 4360-47-8, Styryl cyanide 4362-22-5 4430-31-3, Octahydrocoumarin 4437-20-1, Furfuryl disulfide 4437-51-8, 3,4-Hexanedione 4442-79-9, Cyclohexylethyl alcohol 4455-13-4, Ethyl methylthioacetate 4500-58-7, 2-Ethylbenzenethiol 4547-43-7 4602-84-0, Farnesol 4606-15-9, Propylphenyl acetate 4621-04-9, 4-Isopropylcyclohexanol 4630-07-3, Valencene 4674-50-4, Nootkatone 4676-39-5 4728-82-9, Allyl cyclohexylacetate 4747-07-3, Methyl hexyl ether 4819-67-4 4861-85-2, Isopropylphenyl acetate

4864-61-3, 3-Octyl acetate 4884-24-6, 2-Cyclopentylcyclopentanone
 4927-36-0 4940-11-8, Ethylmaltol 4951-48-8, L-Menthyl propionate
 5132-75-2, Octyl heptanoate 5146-66-7, Geranyl nitrite 5205-11-8,
 Prenyl benzoate 5240-32-4, 1-Ethynylcyclohexyl acetate 5320-75-2,
 Cinnamyl benzoate 5331-32-8, Isobornyl methyl ether 5392-40-5, Citral
 5405-41-4, Ethyl 3-hydroxybutyrate 5406-58-6, 2,5,5-Trimethyl-2-phenyl-
 1,3-dioxane 5421-17-0, Hexylphenyl acetate 5452-07-3 5457-70-5,
 Phenylethyl caprylate 5462-06-6, Canthoxal 5468-05-3 5468-06-4
 5471-51-2, Raspberry ketone 5502-75-0, Mayol 5577-44-6, 2,4-Octadienal
 5579-78-2, ϵ -Decalactone 5760-50-9, Methyl 9-undecenoate
 5764-85-2, Ethyl 3-hydroxy-3-phenylpropionate 5837-78-5, Ethyl tiglate
 5870-93-9, Heptyl butyrate 5910-85-0, 2,4-Heptadienal 5910-89-4,
 2,3-Dimethylpyrazine 5947-36-4, Pinocarveol 5948-04-9, Dihydrocarvone
 5953-76-4, Methyl angelate 5986-55-0, Patchouli alcohol 6028-61-1,
 Dipropyl trisulfide 6066-49-5, 3-n-Butyl phthalide 6079-97-6, Ethyl
 2-hexylacetoacetate 6259-76-3, Hexyl salicylate 6270-03-7, Phenyl
 glycol diacetate 6304-24-1, 2-Isobutylpyridine 6309-51-9 6378-65-0,
 Hexyl hexanoate 6413-10-1, Ethyl acetoacetate ethylene glycol ketal
 6485-40-1, L-Carvone 6493-80-7 6658-48-6 6707-60-4,
 1,6-Dioxacycloheptadecan-7-one 6728-26-3, trans-2-Hexenal 6750-03-4,
 2,4-Nonadienal 6789-80-6, cis-3-Hexenal 6789-88-4, Hexyl benzoate
 6881-94-3, Diethylene glycol monopropyl ether 6915-15-7, Malic acid
 6938-45-0, Benzyl hexanoate 6976-72-3, Heptyl hexanoate 7011-83-8
 7051-39-0, Dihydrojasmonone 7069-41-2, trans-2-Tridecenal 7074-08-0
 7212-44-4, Nerolidol 7289-52-3, Decyl methyl ether 7335-26-4, Ethyl
 o-methoxybenzoate 7370-92-5 7392-19-0, 2,2,6-Trimethyl-6-
 vinyltetrahydropyran 7403-42-1, 4-Methyl-4-phenyl-2-pentanone
 7416-35-5 7452-79-1, Ethyl 2-methylbutyrate 7460-74-4, Phenylethyl
 valerate 7492-66-2, Citral diethyl acetal 7492-67-3,
 Citronellyloxyacetaldehyde 7492-70-8, Butyl butyryllactate 7493-57-4
 7493-65-4, Allyl cyclohexanecarboxylate 7493-69-8, Allyl 2-ethylbutyrate
 7493-74-5, Allyl phenoxyacetate 7493-78-9, α -Amylcinnamyl acetate
 7549-33-9, Anisyl propionate 7549-37-3, Citral dimethyl acetal
 7580-12-3, 2,4,6-Triisopropyl-1,3,5-trioxane 7661-55-4,
 5-Methylquinoline 7756-96-9 7774-44-9, Cyclohexyl isovalerate
 7774-65-4 7775-39-5, Styralyl isobutyrate 7778-83-8, Propyl cinnamate
 7778-85-0, Propylene glycol dimethyl ether 7778-87-2, Propyl heptanoate
 7779-23-9, Linalyl hexanoate 7779-41-1, Decanal dimethyl acetal
 7779-65-9, Isoamyl cinnamate 7779-78-4 7779-81-9, Isobutyl angelate
 7779-94-4, Hydroxycitronellal diethyl acetal 7780-06-5, Isopropyl
 cinnamate 7784-67-0, Ethylisoeugenol 7785-33-3, Geranyl tiglate
 7785-64-0, Butyl angelate 7786-44-9, 2,6-Nonadienol 7786-58-5, Octyl
 isovalerate 7787-20-4, L-Fenchone 8000-41-7, Terpeneol 8000-41-7D,
 Terpeneol, thio derivs. 8007-35-0, Terpinyl acetate 8013-00-1,
 Terpinene 8013-90-9, Ionone 8038-79-7, Benzoin oil 10022-28-3,
 Octanal dimethyl acetal 10024-64-3, Linalyl octanoate 10031-96-6,
 Eugenyl formate 10032-02-7, Geranyl hexanoate 10032-05-0, Heptanal
 dimethyl acetal 10032-13-0, Hexyl isovalerate 10032-15-2, Hexyl
 2-methylbutyrate 10094-34-5 10108-80-2, Propylene glycol Dipropionate
 10203-30-2, 3-Dodecanol 10221-57-5, Propylene glycol diethyl ether
 10276-85-4 10318-16-8 10339-55-6, Ethyllinalool 10361-39-4, Benzyl
 valerate 10402-33-2, Eugenylphenyl acetate 10415-87-9 10444-50-5,
 Citral propylene glycol acetal 10482-55-0, Isoamyl angelate
 10486-14-3, Rhodinyl phenylacetate 10486-19-8, Tridecanal 10519-11-6
 10519-12-7, Decahydro- β -naphthyl formate 10544-63-5, Ethyl
 crotonate 10580-25-3, Citronellyl hexanoate 10588-10-0, Isobutyl
 valerate 10599-70-9, 3-Acetyl-2,5-dimethylfuran 10603-06-2
 11028-42-5, Cedrene 11031-45-1, Santalol 11050-62-7, Isojasmonone
 11072-28-9, Dimethyloctenone 12001-36-4, Raspberry aldehyde

12262-03-2, Isoamyl undecylenate 12687-45-5, Caryophyllene aldehyde
 13019-04-0 13019-22-2, 9-Decen-1-ol 13074-65-2, 2-Hexylcyclopentanone
 13162-46-4, 2,4-Undecadienal 13162-47-5, 2,4-Dodecadienal 13171-00-1,
 Celestolide 13254-34-7, 2,6-Dimethylheptan-2-ol 13327-56-5, Ethyl
 3-methylthiopropionate 13341-72-5, Mentha lactone 13351-61-6,
 2,2-Dimethyl-3-phenylpropanol 13360-64-0, 2-Ethyl-5-methylpyrazine
 13360-65-1, 2-Ethyl-3,6-dimethylpyrazine 13466-78-9 13481-87-3, Methyl
 3-nonenote

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(odor masking compns. containing fragrant substances for hair cosmetics)

IT 513-23-5 546-79-2, Sabinene hydrate 3387-41-5,

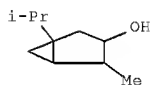
Sabinene

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(odor masking compns. containing fragrant substances for hair cosmetics)

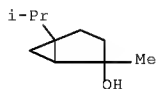
RN 513-23-5 CAPLUS

CN Bicyclo[3.1.0]hexan-3-ol, 4-methyl-1-(1-methylethyl)- (CA INDEX NAME)



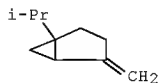
RN 546-79-2 CAPLUS

CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 3387-41-5 CAPLUS

CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:60980 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 139:249957

TITLE: The scent of healing scene

AUTHOR(S): Hasegawa, Yoshihiro; Saito, Syoji

CORPORATE SOURCE: Perfumery Research Laboratory, Kao Corporation, Japan

SOURCE: Aroma Research (2002), 3(4), 347-354

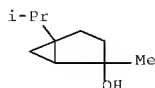
CODEN: ARREFJ; ISSN: 1345-4722

PUBLISHER: Fureguransu Janaru Sha

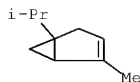
DOCUMENT TYPE: Journal

LANGUAGE: Japanese

- AB In the environment of verdure, herbal garden, grass land, flower shop, and etc, it is no exaggeration to say that people can feel refreshness, happiness, and relaxing. At the same time, they maybe notice that it was because of the atmospheric scents. These atmospheric scents are easily changing in every moment and every scene, so in order to figure out exactly what are these scents, quant. gaseous anal. method is used. Here, we used thermo desorption system with absorption pipe and the canister to analyze the components of the natural scent and the environmental scent.
- CC 62-5 (Essential Oils and Cosmetics)
- IT Odor and Odorous substances
(the scent at healing scene)
- IT 64-19-7, Acetic acid, biological studies 66-25-1, Hexaldehyde 76-22-2, Camphor 78-70-6, Linalool 79-92-5, Camphene 80-56-8, α -Pinene 80-57-9, Verbenone 87-44-5, β -Caryophyllene 89-78-1, Menthyl 89-81-6, Piperitone 89-83-8, Thymol 93-58-3, Methyl benzoate 97-53-0, Eugenol 98-55-5, α -Terpineol 99-48-9, Carveol 99-49-0, Carvone 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 99-86-5, α -Terpinene 99-87-6, p-Cymene 100-51-6, Benzyl alcohol, biological studies 100-52-7, Benzaldehyde, biological studies 106-24-1, Geraniol 106-44-5, p-Cresol, biological studies 119-36-8, Methyl salicylate 123-35-3, Myrcene 123-86-4, n-Butyl acetate 125-12-2, Iso-bornyl acetate 127-91-3, β -Pinene 138-86-3, Limonene 140-11-4, Benzyl acetate 141-78-6, Ethyl acetate, biological studies 470-82-6, 1,8-Cineol 491-07-6, Iso-menthone 495-61-4, β -Bisabolene 495-62-5, Bisabolene 498-15-7 499-75-2, Carvacrol 507-70-0, Borneol 515-69-5, α -Bisabolol 546-79-2, Sabinene hydrate 555-10-2, β -Phellandrene 586-62-9 624-92-0, Dimethyl disulfide 673-84-7, 2,6-Dimethyl-2,4,6-octatriene 928-96-1, cis-3-Hexenol 1076-56-8, Thymyl methyl ether 1195-79-5, Fenchone 1754-62-7, Methyl (E)-cinnamate 2216-51-5 2867-05-2, α -Thujene 3681-71-8, cis-3-Hexenol acetate 3856-25-5, Copaene 4501-58-0 6379-73-3, Carvacryl methyl ether 6750-60-3, Spathulenol 15186-51-3, Rose furan 18794-84-8, β -Farnesene 19713-73-6, Methyl (Z)-cinnamate 23986-74-5, Germacrene D 30460-92-5, Pinocarpone 91819-58-8, Campholenic aldehyde
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(the scent at healing scene)
- IT 546-79-2, Sabinene hydrate 2867-05-2, α -Thujene
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(the scent at healing scene)
- RN 546-79-2 CAPLUS
- CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



- RN 2867-05-2 CAPLUS
- CN Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:891228 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 139:122404

TITLE: Comparative investigations of the essential oil and volatiles of spearmint

AUTHOR(S): Jirovetz, Leopold; Buchbauer, Gerhard; Shahabi, Manochehr; Ngassoum, Martin Benoit

CORPORATE SOURCE: University of Vienna, Vienna, Austria

SOURCE: Perfumer & Flavorist (2002), 27(6), 16, 18-22

CODEN: PEFLDI; ISSN: 0272-2666

PUBLISHER: Allured Publishing Corp.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A study was conducted to identify the fragrance compds. of *Mentha spicata* oil from Cameroon and its solid-phase-microextn.-headspace (SPME) by means of gas chromatog.-spectroscopic and olfactive methods to find out the importance of each single constituent with their specific odor attributes, responsible for the characteristic and pleasant spearmint aroma. The odor impression was found to be a very pleasant spearmint one, with green, floral, fruity and spicy sidenotes. The composition of the essential spearmint oil and its corresponding SPME-headspace sample is very similar and differs only in the concns. of the main compds., (-)-limonene, 1,8-cineole (4.189%, 7.12%), and trans-1-hexen-3-ol (0.66%, 1.72%). In addition to the composition of both samples, the olfactive evaluations certify a high quality of the investigated essential spearmint oil from Cameroon and a possible use in food, perfumery and cosmetic products requiring a fresh-spearmint odor.

CC 62-2 (Essential Oils and Cosmetics)

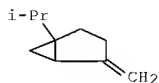
Section cross-reference(s): 11

IT Odor and Odorous substances

(essential oil and volatiles of spearmint)

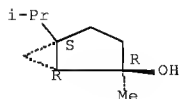
IT 78-70-6, Linalool 78-92-2, 2-Butanol 79-92-5, Camphene 80-56-8, α -Pinene 87-44-5, β -Caryophyllene 89-78-1, Menthol 89-82-7, Pulegone 96-17-3, 2-Methyl butanal 98-55-5, α -Terpineol 99-49-0, Carvone 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 99-86-5, α -Terpinene 99-87-6, p-Cymene 106-24-1, Geraniol 110-62-3, Pentanal 111-27-3, Hexanol, biological studies 115-95-7, Linalyl acetate 123-35-3, β -Myrcene 127-91-3, β -Pinene 138-86-3, Limonene 470-82-6, 1,8-Cineole 488-10-8, cis-Jasmone 507-70-0, Borneol 515-13-9, β -Elemene 562-74-3, Terpinen-4-ol 589-98-0, 3-Octanol 590-86-3, 3-Methyl butanal 928-96-1, cis-3-Hexenol 1134-95-8, trans-Carvyl acetate 1197-06-4, cis-Carveol 1197-07-5, trans-Carveol 1205-42-1, cis-Carvyl acetate 3338-55-4, cis- β -Ocimene 3387-41-5, Sabinene 3779-61-1, trans- β -Ocimene 3792-53-8, cis-Dihydrocarvone 3856-25-5, α -Copaene 4798-44-1, 1-Hexen-3-ol 5208-59-3, β -Bourbonene 5948-04-9, trans-Dihydrocarvone 6753-98-6, α -Humulene 13466-78-9 17699-16-0, trans-Sabinene hydrate 18794-84-8, trans- β -Farnesene 22567-21-1, cis-Dihydrocarveol 22567-22-2, trans-Dihydrocarveol 24703-35-3, Bicyclogermacrene 28028-64-0, Germacrene 28387-44-2, Germacrene A 57287-13-5, Dihydrocarvyl acetate

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (essential oil and volatiles of spearmint)
 IT 3387-41-5, Sabinene 17699-16-0, trans-Sabinene hydrate
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (essential oil and volatiles of spearmint)
 RN 3387-41-5 CAPLUS
 CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



RN 17699-16-0 CAPLUS
 CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1R,2R,5S)-rel-
 (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:610374 CAPLUS Full-text
 DOCUMENT NUMBER: 137:166391
 TITLE: Genes for enzymes of terpene and olefin biosynthesis
 and their use in the preparation of flavors,
 fragrances, and biocontrol agents
 INVENTOR(S): Aharoni, Asaph; Verhoeven, Henricus Adrianus; Jongasma,
 Maarten Anthonie; Bouwmeester, Hendrik Jan
 PATENT ASSIGNEE(S): Plant Research International B.V., Neth.
 SOURCE: Eur. Pat. Appl., 52 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1231273	A1	20020814	EP 2001-200488	20010212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2437863	A1	20020822	CA 2002-2437863	20020212
WO 2002064764	A2	20020822	WO 2002-NL89	20020212
WO 2002064764	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002233824	A1	20020828	AU 2002-233824	20020212
EP 1379663	A2	20040114	EP 2002-700889	20020212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, IV, FI, RO, MK, CY, AL, TR				
BR 2002007164	A	20040210	BR 2002-7164	20020212
US 20040161819	A1	20040819	US 2003-635223	20030805
IN 2003CN01419	A	20051125	IN 2003-CN1419	20030910
PRIORITY APPLN. INFO.:			EP 2001-200488	A 20010212
			WO 2002-NI.89	W 20020212

AB Genes for enzymes of terpenoid biosynthesis that can be used in the manufacture of components of flavors and fragrances and in bio-control agent development are described. The invention provides an isolated or recombinant nucleic acid or functional fragment thereof encoding a proteinaceous mol. essentially capable of flavor, fragrance and/or bio-control agent synthesis when provided with a suitable substrate under appropriate reaction conditions. The invention further provides a nucleic acid or functional fragment thereof encoding a proteinaceous mol. essentially capable of synthesizing at least a monoterpene alc. linalool when contacted with geranyl diphosphate (GDP) and/or at least a sesquiterpene alc. nerolidol when contacted with farnesyl diphosphate (FDP) under appropriate reaction conditions. CDNAs for a linalool synthase and a neridiol synthase of strawberry were identified by BLAST querying of mass cDNA sequences against public sequence databases. The genes were up-regulated by auxin during fruit ripening and proteins prepared by expression of the cloned gene in Escherichia coli were used to characterized their substrates and products. Expression of the linalool synthase gene in petunia resulted in increased accumulation of linaloyl glucoside.

IC ICM C12N015-60

CC ICS C12N009-88; A01H005-00; C08G008-30; A61K007-46

11-2 (Plant Biochemistry)

Section cross-reference(s): 3, 5, 7, 17, 62

IT Cosmetics

(cleansing, manufacture of terpenes for; genes for enzymes of terpene and olefin biosynthesis and their use in preparation of flavors, fragrances, and biocontrol agents)

IT Cosmetics

(creams, manufacture of terpenes for; genes for enzymes of terpene and olefin biosynthesis and their use in preparation of flavors, fragrances, and biocontrol agents)

IT Cosmetics

Dietary supplements

Disinfectants

Fungicides

Health products

Preservatives

Sunscreens

(manufacture of terpenes for; genes for enzymes of terpene and olefin biosynthesis and their use in preparation of flavors, fragrances, and biocontrol agents)

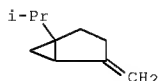
IT Flavoring materials

Odor and Odorous substances

Pesticides

(preparation of components of; genes for enzymes of terpene and olefin biosynthesis and their use in preparation of flavors, fragrances, and biocontrol agents)

- IT 80-56-8P, α -Pinene 98-55-5P, α -Terpineol 99-83-2P,
 α -Phellandrene 99-85-4P, γ -Terpinene 123-35-3P,
 β -Myrcene 127-91-3P, β -Pinene 555-10-2P, β -Phellandrene
 586-62-9P 3387-41-5P, Sabinene 18479-58-8P, Dihydromyrcenol
 RL: AGR (Agricultural use); BMF (Bioindustrial manufacture); COS
 (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (cloning of genes for enzymes of biosynthesis of; genes for enzymes of
 terpene and olefin biosynthesis and their use in preparation of flavors,
 fragrances, and biocontrol agents)
- IT 3387-41-5P, Sabinene
 RL: AGR (Agricultural use); BMF (Bioindustrial manufacture); COS
 (Cosmetic use); FFD (Food or feed use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (cloning of genes for enzymes of biosynthesis of; genes for enzymes of
 terpene and olefin biosynthesis and their use in preparation of flavors,
 fragrances, and biocontrol agents)
- RN 3387-41-5 CAPLUS
- CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:393696 CAPLUS Full-text

DOCUMENT NUMBER: 138:142157

TITLE: New aroma chemicals: Thujone alternatives

AUTHOR(S): Britten-Kelly, Michael

CORPORATE SOURCE: International Flavors and Fragrances Inc.,
 Jacksonville, FL, USA

SOURCE: Perfumer & Flavorist (2002), 27(3), 24-26,28

CODEN: PEFLDI; ISSN: 0272-2666

PUBLISHER: Allured Publishing Corp.

DOCUMENT TYPE: Journal; General Review

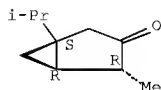
LANGUAGE: English

AB A review. The uses of thujone and thujone-containing materials in perfumery were reviewed. The thujonic note is quite multifaceted, and can be used to add freshness, lift and warmth to a broad range of fragrance types. Thujones are particularly prevalent in species of *Artemisia*, most famously in *Artemisia absinthium*, from which wormwood oil is derived. The use of thujone in food additives has been banned or restricted in many jurisdictions, but it is difficult to exclude it completely, given its widespread distribution in nature. The odor of thujone is powerful and penetrating, warm-herbaceous, and minty-camphoraceous. This description probably refers to thujone from a natural source, such as cedarleaf oil, and the evaluation of such a material is undoubtedly influenced by the source from which it is derived.

CC 62-0 (Essential Oils and Cosmetics)

IT Odor and Odorous substances
 Perfumes
 (thujone alternatives as aroma chems.)
 IT 546-80-5, Thujone
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (thujone alternatives as aroma chems.)
 IT 546-80-5, Thujone
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (thujone alternatives as aroma chems.)
 RN 546-80-5 CAPLUS
 CN Bicyclo[3.1.0]hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S,4R,5R)- (CA
 INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:181939 CAPLUS Full-text
 DOCUMENT NUMBER: 137:389000
 TITLE: Fragrant adventures in Madagascar
 AUTHOR(S): Clery, Robin
 CORPORATE SOURCE: Natural Products Research, Quest International, Kent,
 TN24 0LT, UK
 SOURCE: Special Publication - Royal Society of Chemistry
 (2002), 277(Advances in Flavours and Fragrances),
 92-98
 CODEN: SROCD0; ISSN: 0260-6291
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Samples of resin were collected from *Canarium madagascariense* in the Montagne
 D'Ambre region of Madagascar, in Oct. 2000, for the discovery of new natural
 scents. Although *C. madagascariense* is in the same botanical family and genus
 as *Elemi* (*C. luzonicum*), it is apparent from the olfactory and anal. data that
 the odor and composition of the resin from these 2 species was distinctly
 different. The major differences between the 2 species were the presence of
 elemol, elemicin, and limonene in the *Elemi* oil and the greater proportion of
 p-cymene and terpinolene in *C. madagascariense* extract Both samples contain
 α - and β -phellandrenes. The *C. madagascariense* had a woody, sandalwood, mint,
 lime odor as indicated from GC-olfactometry. The discovery of this fragrant
 resin and the many other scented flowers, leaves, and barks that were found in
 the forests of Madagascar during the expedition demonstrate the significance
 of such ventures in the discovery and creation of new fragrances. Through the
 identification of the plants and the anal. of the exts., the secrets of the
 natural chemical of these fragrant materials can be discovered.

CC 62-5 (Essential Oils and Cosmetics)

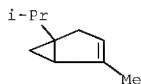
Section cross-reference(s): 11

IT *Canarium luzonicum*
Canarium madagascariense
 Odor and Odorous substances

Perfumes

(fragrances of *Canarium madagascariense* from Madagascar)

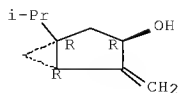
- IT 76-22-2, Camphor 78-70-6, Linalool 79-92-5, Camphene 80-56-8, α -Pinene 87-44-5, Caryophyllene 89-81-6, Piperitone 89-83-8, Thymol 93-15-2, Methyl Eugenol 98-55-5, α -Terpineol 99-49-0, Carvone 99-83-2, α -Phellandrene 99-85-4, γ -Terpinene 99-86-5, α -Terpinene 99-87-6, p-Cymene 106-25-2, Nerol 106-44-5, p-Cresol, biological studies 115-95-7, Linalyl acetate 123-35-3, Myrcene 127-91-3, β -Pinene 138-86-3, Limonene 470-82-6, 1,8-Cineole 471-84-1, α -Fenchene 473-15-4, β -Eudesmol 483-76-1, δ -Cadinene 487-11-6, Elemicin 489-86-1, Guaiol 499-75-2, Carvacrol 507-70-0, Borneol 555-10-2, β -Phellandrene 562-74-3, Terpinen-4-ol 586-62-9, Terpinolene 586-81-2, γ -Terpineol 639-99-6, Elemol 1195-92-2, Limonene epoxide 1197-01-9, p-Cymen-8-ol 1197-06-4, cis-Carveol 1197-07-5, trans-Carveol 1209-71-8, γ -Eudesmol 1632-73-1, Fenchol 2451-01-6, Terpinene hydrate 2867-05-2, α -Thujene 3310-02-9, cis-Sabinol 3387-41-5, Sabinene 3856-25-5, α -Copaene 3886-78-0, 6753-98-6, Humulene 7299-40-3, cis- β -Terpineol 7299-41-4, trans- β -Terpineol 8007-35-0, Terpinyl acetate 13466-78-9, 3-Carene 13474-59-4, trans- α -Bergamotene 16721-39-4, trans-Piperitol 17699-14-8, α -Cubebene 17699-16-0, trans-Sabinene hydrate 18252-44-3, β -Copaene 18368-95-1, 1,3,8-p-Menthatriene 20307-84-0, δ -Elemene 20489-45-6, Valerianol 22451-73-6, Bulnesol 23986-74-5, Germacrene D 27400-71-1, cis-Ocimene 27400-72-2, trans-Ocimene 29803-81-4, cis-p-Menth-2-en-1-ol 29803-82-5, trans-p-Menth-2-en-1-ol 78774-34-2
 RL: ANT (Analyte); COS (Cosmetic use); NPO (Natural product occurrence); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (fragrances of *Canarium madagascariense* from Madagascar)
- IT 2867-05-2, α -Thujene 3310-02-9, cis-Sabinol 3387-41-5, Sabinene 17699-16-0, trans-Sabinene hydrate
 RL: ANT (Analyte); COS (Cosmetic use); NPO (Natural product occurrence); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (fragrances of *Canarium madagascariense* from Madagascar)
- RN 2867-05-2 CAPLUS
- CN Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



- RN 3310-02-9 CAPLUS
- CN Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1R,3R,5R)-rel- (CA INDEX NAME)

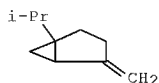
Relative stereochemistry.

Currently available stereo shown.



RN 3387-41-5 CAPLUS

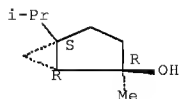
CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



RN 17699-16-0 CAPLUS

CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1R,2R,5S)-rel-
(CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:910226 CAPLUS Full-text

DOCUMENT NUMBER: 136:42536

TITLE: Antibacterial fragrance and substance for manufacture
of cosmetics

INVENTOR(S): Tokita, Fumihiko

PATENT ASSIGNEE(S): Lion Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001348308	A	20011218	JP 2001-116093	20010312
PRIORITY APPLN. INFO.:			JP 2000-114378	A 20000313

AB The antibacterial fragrance and substance (I) are selected from p-cymene, α -pinene, etc. I are useful for manufacturing cosmetics, oral hygiene products, disinfectants, bath prepns., etc. The amount of I used is 0.01-20 weight% of the products.

IC ICM A61K007-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 10, 17

IT Antibacterial agents
 Candy
 Chewing gum
 Cosmetics
 Dentifrices
 Disinfectants
 Metabolism, microbial
 Mouthwashes
 Odor and Odorous substances
 Perfumes
 Shampoos
 (antibacterial fragrance and substance for manufacture of cosmetics)

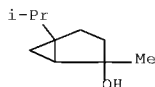
IT Cosmetics
 Hair preparations
 (creams; antibacterial fragrance and substance for manufacture of cosmetics)

IT Cosmetics
 (emulsions; antibacterial fragrance and substance for manufacture of cosmetics)

IT Cosmetics
 (liqs.; antibacterial fragrance and substance for manufacture of cosmetics)

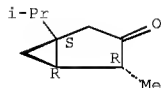
IT 78-94-4, 3-Buten-2-one, biological studies 79-69-6, α -Irene
 80-56-8, α -Pinene 95-41-0, 2-Hexyl-2-cyclopentenone 99-87-6,
 p-Cymene 101-85-9, α -Amylcinnamic alcohol 103-95-7, Cyclamen
 aldehyde 122-97-4, 3-Phenyl-1-propanol 127-41-3, α -Ionone
 127-51-5, α -Isomethylionone 127-91-3, β -Pinene 137-03-1,
 2-Heptylcyclopentanone 138-86-3, Dipentene 138-87-4, β -Terpineol
 151-19-9, 3,6-Dimethyl-3-octanol 286-99-7, 1,2-Epoxydodecane
 470-65-5, p-Menthan-4-ol 470-67-7, 1,4-Cineol 473-55-2, Pinane
 491-07-6, Isomenthone 501-91-7, Junipal 515-69-5, α -Bisabolol
 546-79-2, Sabinene hydrate 546-80-5, Thujone 565-69-5,
 2-Methyl-3-pentanone 565-80-0, 2,4-Dimethyl-3-pentanone 589-92-4,
 4-Methylcyclohexanone 598-07-2 600-14-6, 2,3-Pentanedione 616-25-1,
 1-Penten-3-ol 619-62-5, 2-p-Menthen-1-ol 639-99-6, Elemol 689-39-4
 693-54-9, 2-Decanone 1003-38-9, 2,5-Dimethyltetrahydrofuran 1119-44-4,
 3-Hepten-2-one 1126-18-7, 2-Butylcyclohexanone 1446-84-0 1604-28-0,
 6-Methyl-3,5-heptadien-2-one 1669-44-9, 3-Octen-2-one 1708-81-2,
 cis-3-Hepten-1-ol 1728-46-7, 2-tert-Butylcyclohexanone 3681-70-7
 4013-34-7, 1-Phenylethylmethyl ether 4819-67-4, 2-Pentylcyclopentanone
 4927-39-3, 4-Cyclohexyl-4-methyl-2-pentanone 5286-38-4, Piperitone oxide
 6191-71-5, cis-4-Hepten-1-ol 7212-44-4, Nerolidol 10340-23-5,
 cis-3-Nonen-1-ol 10415-87-9, 3-Methyl-1-phenyl-3-pentanol 10519-33-2,
 3-Decen-2-one 13466-78-9 13477-62-8, Dihydroses oxide 14309-57-0,
 3-Nonen-2-one 14765-30-1, 2-sec-Butylcyclohexanone 21378-21-2,
 3-Methyl-2-cyclohexen-1-ol 25304-14-7, 3,3-Dimethylcyclohexylmethyl
 ketone 25795-46-4, Tetrahydrocitral 26643-91-4, 4-Methyl-2-phenyl-2-
 pentanol 27137-41-3, Methylfuran 28219-61-6 29597-36-2 29760-95-0,
 Ethylcyclohexanol 30385-25-2, Dihydromyrcenol 31906-04-4 35854-86-5,
 cis-6-Nonen-1-ol 36219-73-5, 10-Undecen-2-one 38049-26-2,
 Dihydrocarveol 39067-39-5 40785-62-4, 3-Oxabicyclo[10.3.0]pentadec-6-
 ene 41239-48-9, 2,5-Diethyltetrahydrofuran 56011-02-0, Phenylethyl
 isoamyl ether 56107-04-1 57357-83-2, (+)-3-Formylpinane 57702-05-3,
 Tridecanone 58096-21-2, (-)-3-Formylpinane 67583-77-1 68129-81-7,
 Vetiverol 71832-76-3 72089-08-8 116325-90-7, 1,3,4,6,7,8,-Hexahydro-
 4,6,6,7,8,-hexamethylcyclopenta- γ -2-benzopyran
 RL: BSU (Biological study, unclassified); COS (Cosmetic use);
 BIOL (Biological study); USES (Uses)
 (antibacterial fragrance and substance for manufacture of cosmetics)

IT 546-79-2, Sabinene hydrate 546-80-5, Thujone
 RL: BSU (Biological study, unclassified); COS (Cosmetic use);
 BIOL (Biological study); USES (Uses)
 (antibacterial fragrance and substance for manufacture of cosmetics)
 RN 546-79-2 CAPLUS
 CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)- (CA INDEX NAME)



RN 546-80-5 CAPLUS
 CN Bicyclo[3.1.0]hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S,4R,5R)- (CA INDEX NAME)

Absolute stereochemistry.



L39 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:262157 CAPLUS Full-text
 DOCUMENT NUMBER: 130:313492
 TITLE: Perfume compositions for laundry detergents
 INVENTOR(S): Perring, Keith Douglas; Clements, Christopher Francis;
 MacMaster, Angus Peter
 PATENT ASSIGNEE(S): Quest International B.V., Neth.
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918926	A1	19990422	WO 1998-GB3057	19981009
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IN 1998CA01774	A	20050610	IN 1998-CA1774	19981007
CA 2305464	A1	19990422	CA 1998-2305464	19981009
AU 9893613	A	19990503	AU 1998-93613	19981009
EP 1021160	A1	20000726	EP 1998-946617	19981009
EP 1021160	B1	20040908		

R: BE, DE, ES, FR, GB, IT

BR 9813850	A	20000919	BR 1998-13850	19981009
JP 2001519465	T	20011023	JP 2000-515564	19981009
PL 195972	B1	20071130	PL 1998-339863	19981009
MX 200003452	A	20010910	MX 2000-3452	20000407
US 6465420	B1	20021015	US 2000-529098	20000619
US 20030096730	A1	20030522	US 2002-230413	20020829
US 6780835	B2	20040824		

PRIORITY APPLN. INFO.:

GB 1997-21587	A	19971010
WO 1998-GB3057	W	19981009
US 2000-529098	A1	20000619

AB Disclosed is a perfume composition which gives good deposition and/or substantially improved deodorant effectiveness on textiles incorporating spandex fibers. The perfume comprises a mixture of fragrance materials in which at least 60 % of the composition comprises fragrance materials drawn from categories I and II.

IC ICM A61K007-46
ICS C11B009-00; C11D003-50

CC 46-1 (Surface Active Agents and Detergents)
Section cross-reference(s): 40, 62

ST perfume laundry detergent spandex fiber

IT Detergents
(laundry; perfume compns. for laundry detergents to deposit perfumes on fabrics)

IT Fabric softeners
Perfumes
(perfume compns. for laundry detergents to deposit perfumes on fabrics)

IT Alcohols, miscellaneous
Aldehydes, miscellaneous
Esters, miscellaneous
Ethers, miscellaneous
Ketones, miscellaneous
Nitriles, miscellaneous
Phenols, miscellaneous
Spandex fibers
RL: BUU (Biological use, unclassified); MSC (Miscellaneous); BIOL (Biological study); USES (Uses)
(perfume compns. for laundry detergents to deposit perfumes on fabrics)

IT 78-69-3, Tetrahydrolinalool 78-70-6 79-77-6, β -Ionone 80-54-6
87-19-4, Isobutyl salicylate 87-20-7, Isoamyl salicylate 87-44-5,
Caryophyllene 89-78-1, Menthol 89-83-8, Thymol 93-04-9, Nerolin
93-29-8, Isoeugenyl acetate 93-51-6, 2-Methoxy-4-methylphenol 97-53-0,
Eugenol 97-54-1, Isoeugenol 98-52-2 101-81-5, Diphenylmethane
101-84-8, Diphenyl oxide 103-26-4, Methyl cinnamate 103-48-0
103-60-6, Phenoxyethyl isobutyrate 103-95-7 104-61-0,
 γ -Nonalactone 104-67-6, γ -Undecalactone 105-87-3, Geranyl
acetate 106-21-8, Tetrahydrogeraniol 106-22-9, Citronellol 106-24-1
106-25-2, Nerol 107-75-5, Hydroxycitronellal 110-41-8,
2-Methylundecanal 112-54-9, Dodecanal 119-61-9, Benzophenone,
miscellaneous 122-67-8, Isobutyl cinnamate 127-51-5, α -Iso
methyl ionone 128-51-8, Nopyl acetate 137-03-1, 2-Heptyl
cyclopentanone 142-50-7, Nerolidol 150-84-5, Citronellyl acetate
488-10-8, cis-Jasmone 499-75-2, Carvacrol 507-70-0, Borneol 610-16-2
706-14-9, γ -Decalactone 1128-08-1, Dihydrojasmone 1333-52-4,
Methyl naphthyl ketone 1333-58-0, Isobutyl quinoline 2049-96-9, Amyl
benzoate 2050-08-0, Amyl salicylate 2437-25-4, Dodecane nitrile
2463-77-6, 2-Undecenal 2556-10-7 2705-87-5 2785-87-7, Dihydroeugenol

4826-62-4, Dodecen-2-al 5331-14-6 5502-75-0 6079-97-6, Jessate
 6789-88-4, Hexyl benzoate 6901-97-9 7492-66-2, Citral diethyl acetal
 8000-41-7, Terpineol 8007-35-0, Terpinyl acetate 13019-22-2, 9-Decenol
 13074-65-2, Jasmatone 14374-92-6, Pelargene 14727-47-0 17511-60-3
 18127-01-0 18479-51-1, Dihydrolinalool 18479-57-7, Tetrahydromyrcenol
 18871-14-2, Jasmopyrane 23726-91-2, β -Damascone 26912-64-1,
 Fleuroxene 28219-61-6, Bangalol 30385-25-2, Dihydromyrcenol
 32210-23-4, p-tert-Butyl cyclohexyl acetate 37677-14-8, Empetaal
 40910-49-4, Elintaal Forte 43052-87-5, α -Damascone 52475-86-2
 54830-99-8, Jasmacyclene 55066-48-3, Phenoxanol 56011-02-0,
 Phenylethyl isoamyl ether 57378-68-4, δ -Damascone 58985-02-7,
 Dihydroterpineol 58985-18-5, Dihydroterpinyl acetate 65113-99-7
 67633-94-7 67634-15-5 67662-96-8, Pivarose 67845-30-1, Maceal
 68083-58-9 68901-15-5 71662-17-4 81782-77-6, 4-Methyl-3-decen-5-ol
 82461-14-1, 2,4-Dimethyl-4-phenyltetrahydrofuran 84434-18-4, Gardamide
 96844-45-0 113974-00-8, Gardocyclene 129520-41-8 139504-68-0
 223450-28-0 223460-03-5 223492-85-1, Felvinone 223492-97-5,
 Pivacyclene 223509-00-0, Rose acetone

RL: BUU (Biological use, unclassified); MSC (Miscellaneous); BIOL
 (Biological study); USES (Uses)

(perfume compns. for laundry detergents to deposit perfumes
 on fabrics)

IT 78-93-3, Methyl ethyl ketone, miscellaneous

RL: BUU (Biological use, unclassified); MSC (Miscellaneous); BIOL
 (Biological study); USES (Uses)

(trimers; perfume compns. for laundry detergents to deposit
 perfumes on fabrics)

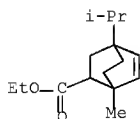
IT 223450-28-0

RL: BUU (Biological use, unclassified); MSC (Miscellaneous); BIOL
 (Biological study); USES (Uses)

(perfume compns. for laundry detergents to deposit perfumes
 on fabrics)

RN 223450-28-0 CAPLUS

CN Bicyclo[2.2.2]oct-5-ene-2-carboxylic acid, 1-methyl-4-(1-methylethyl)-,
 ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:501992 CAPLUS Full-text

DOCUMENT NUMBER: 127:191600

ORIGINAL REFERENCE NO.: 127:37163a,37166a

TITLE: Identification of migratable substances in recycled
 high-density polyethylene collected from
 household waste

AUTHOR(S): Huber, Monika; Franz, Roland

CORPORATE SOURCE: Fraunhofer Institute Food Technology Packaging,
 Freising, D-85354, Germany

SOURCE: Journal of High Resolution Chromatography (1997),
20(8), 427-430
CODEN: JHRCE7; ISSN: 0935-6304
PUBLISHER: Huethig
DOCUMENT TYPE: Journal
LANGUAGE: English

- AB High-d. polyethylene regranules reprocessed from separated household waste collection were investigated for migratable contaminants which were not present in virgin material. Although the material originated from different European reproducers, the detected recycling-specific compds. were similar in most of the investigated samples. At a chosen threshold concentration of 0.5 µg/g more than 70 compds. were tentatively identified. Aroma compds. and preservatives were found in the range of 0.5-10 µg/g. Limonene, di(ethylhexyl) phthalate, and the iso-Pr esters of myristic and palmitic acids were detected in concns. ≤200 µg/g. These compds. were found in almost all the regranules. Most of the substances identified are constituents of personal hygiene products and cleaning agents and are therefore absorbed by the package during the storage. Owing to European food legislation and German cosmetics regulations, the use of such recycling packaging material appears suitable only for filling with tech. products.
- CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 17, 60, 62
- IT Bottles
Packaging materials
(anal. of migratable substances in recycled high-d. polyethylene bottles collected from household waste)
- IT Perfumes
Preservatives
Recycling of plastics and rubbers
(anal. of migratable substances in recycled high-d. polyethylene collected from household waste)
- IT Alkanes, analysis
Alkenes, analysis
RL: ANT (Analyte); POL (Pollutant); ANST (Analytical study); OCCU (Occurrence)
(branched; anal. of migratable substances in recycled high-d. polyethylene collected from household waste)
- IT Alcohols, analysis
RL: ANT (Analyte); POL (Pollutant); ANST (Analytical study); OCCU (Occurrence)
(cosanol; anal. of migratable substances in recycled high-d. polyethylene collected from household waste)
- IT Environmental pollution
(hydrocarbon; anal. of migratable substances in recycled high-d. polyethylene collected from household waste)
- IT 66-25-1, Hexanal 76-22-2, Camphor 78-70-6 79-92-5, Camphene 80-56-8, α-Pinene 84-66-2, Diethyl phthalate 84-74-2, Dibutyl phthalate 87-44-5, Caryophyllene 89-80-5, Menthone 99-48-9, Carveol 99-87-6, p-Cymene 100-41-4, Ethylbenzene, analysis 100-42-5, analysis 100-66-3, analysis 104-46-1, Anethole 108-39-4, 3-Methylphenol, analysis 108-88-3, Toluene, analysis 110-27-0, Isopropyl myristate 111-82-0, Methyl laurate 112-10-7, Isopropyl stearate 112-30-1, 1-Decanol 112-39-0, Methyl palmitate 112-41-4, 1-Dodecene 112-53-8, 1-Dodecanol 112-61-8, Methyl stearate 112-88-9, 1-Octadecene 115-95-7, Linalyl acetate 117-81-7 118-58-1, Benzyl salicylate 118-61-6, Ethyl salicylate 119-61-9, Benzophenone, analysis 123-35-3, Myrcene 123-66-0, Ethyl hexanoate 124-10-7, Methyl myristate 124-13-0, Octanal 128-37-0, analysis 131-16-8, Dipropyl phthalate 138-86-3, Limonene 142-91-6, Isopropyl palmitate 150-84-5, Citronellyl

acetate 470-82-6, 1,8-Cineole 495-62-5, Bisabolene 540-84-1,
 2,2,4-Trimethyl pentane 544-12-7, 3-Hexen-1-ol 544-85-4, Dotriacontane
 562-74-3, Terpinen-4-ol 607-90-9, Propyl salicylate 629-50-5,
 Tridecane 629-62-9, Pentadecane 629-73-2, 1-Hexadecene 629-78-7,
 Heptadecane 630-02-4, Octacosane 638-68-6, Triacontane 1120-36-1,
 1-Tetradecene 1490-04-6, Menthol 1599-67-3, 1-Docosene 2050-08-0,
 Pentyl salicylate 2082-79-3, Irganox 1076 2550-26-7, Benzyl acetone
 3387-41-5, Sabinene 3856-25-5, α -Copaene 6259-76-3,
 Hexyl salicylate 8007-35-0, Terpinyl acetate 11028-42-5, Cedrene
 13305-14-1, Methyl-4-methoxymandelate 18435-53-5, 1-Triacontene
 18435-55-7, 1-Dotriacontene 18835-33-1, 1-Hexacosene 18835-34-2,
 1-Octacosene 18955-99-2, 6-Methyl-5-phenyl-5-hepten-2-one 20112-91-8
 20777-45-1, Iso-menthyl acetate 21378-21-2, 3-Methyl-2-cyclohexen-1-ol
 21987-12-2 22924-15-8, 3-Ethoxybenzaldehyde 25339-53-1, Decene
 31570-04-4, Irgafos 168 36653-82-4, 1-Hexadecanol 36731-16-5,
 Tetracosene 39350-49-7, Hexylcinnamaldehyde 41593-38-8,
 Phenoxypropanol 61868-12-0, 1-Tetratriacontene 61868-14-2,
 1-Hexatriacontene 79147-45-8, Phenanthrenone 81400-75-1, Methoxyphenyl
 acetone 99016-10-1, Butylhexylbenzene 150171-33-8, Pentyl
 4-methoxycinnamate 172141-15-0, 3-Hexenyl salicylate 194306-56-4
 RL: ANT (Analyte); POL (Pollutant); ANST (Analytical study); OCCU
 (Occurrence)

(anal. of migratable substances in recycled high-d. polyethylene
 collected from household waste)

IT 9002-88-4, Polyethylene

RL: AMX (Analytical matrix); TEM (Technical or engineered material use);
 ANST (Analytical study); USES (Uses)

(high-d.; anal. of migratable substances in recycled high-d.
 polyethylene collected from household waste)

IT 25247-68-1, Styrene dimer

RL: ANT (Analyte); POL (Pollutant); ANST (Analytical study); OCCU
 (Occurrence)

(isomer; anal. of migratable substances in recycled high-d.
 polyethylene collected from household waste)

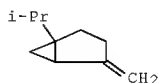
IT 3387-41-5, Sabinene

RL: ANT (Analyte); POL (Pollutant); ANST (Analytical study); OCCU
 (Occurrence)

(anal. of migratable substances in recycled high-d. polyethylene
 collected from household waste)

RN 3387-41-5 CAPLUS

CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:253104 CAPLUS Full-text

DOCUMENT NUMBER: 120:253104

ORIGINAL REFERENCE NO.: 120:44659a,44662a

TITLE: Tetralin formate esters with fragrant musk-like aroma

INVENTOR(S): Frank, Walter C.

PATENT ASSIGNEE(S): Union camp Corp., USA

SOURCE: U.S., 38 pp.

DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 2 English
 PATENT INFORMATION: 2

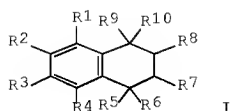
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5292719	A	19940308	US 1993-80078	19930618
US 5401720	A	19950328	US 1994-184584	19940121
WO 9500114	A1	19950105	WO 1994-US5874	19940524

RW: DE, FR, GB, NL

PRIORITY APPLN. INFO.: US 1993-80078 A2 19930618

OTHER SOURCE(S): MARPAT 120:253104

GI



AB Formate ester tetralin compds. I [R1 = H, Me, Et, OMe, OH; R2, R3 = H, Me, Et, OMe, OH, OC(O)H; R4 = H; R5 = H, Me, Et, or R4 and R5 together are (CH2)2; R6 = Me, Et; R7 = H, Me, Et, or R6 and R7 together are (CH2)3; R8, R9 = H, Me, Et; R10 = Me; with provisions] are provided which have a fragment musk-like aroma.

IC ICM A61K007-46

INCL 512019000

CC 62-5 (Essential Oils and Cosmetics)
 Section cross-reference(s): 25

IT Cosmetics
 Perfumes
 (tetralin formate ester derivative fragrances with musk-like aroma for)

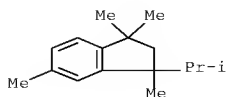
IT Odor and Odorous substances
 (musk-like, tetralin formate ester derivs.)

IT 66324-88-7P, 1,1,3,5-Tetramethyl-3-isopropylindane
 92836-12-9P, 1,3,3,5-Tetramethyl-1-isopropylindane
 RL: PREP (Preparation)
 (preparation of)

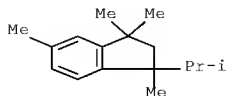
IT 66324-88-7P, 1,1,3,5-Tetramethyl-3-isopropylindane
 92836-12-9P, 1,3,3,5-Tetramethyl-1-isopropylindane
 RL: PREP (Preparation)
 (preparation of)

RN 66324-88-7 CAPLUS

CN 1H-Indene, 2,3-dihydro-1,1,3,5-tetramethyl-3-(1-methylethyl)- (CA INDEX NAME)



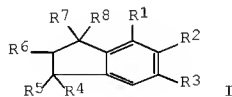
RN 92836-12-9 CAPLUS
 CN 1H-Indene, 2,3-dihydro-1,3,3,5-tetramethyl-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:253103 CAPLUS Full-text
 DOCUMENT NUMBER: 120:253103
 ORIGINAL REFERENCE NO.: 120:44659a,44662a
 TITLE: Formate ester indane compounds for fragrances with musk-like aroma
 INVENTOR(S): Frank, Walter C.
 PATENT ASSIGNEE(S): Union camp corporation, USA
 SOURCE: U.S., 18 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

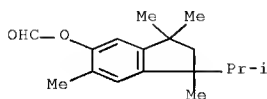
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5292720	A	19940308	US 1993-79008	19930618
US 5403823	A	19950404	US 1994-184862	19940121
WO 9500113	A1	19950105	WO 1994-US5830	19940524

RW: DE, FR, GB, NL
 PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 120:253103
 GI

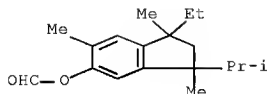


AB Formate ester indane compds. I [R1 = H, Me, Et, MeO, OH; R2, R3 = H, Me, Et, OMe, OH, OC(O)H; R4, R7 = H, Me, Et, CHMe2; R5, R8 = H, Me; R6 = H, Me, Et; with provisions] are provided which have a fragment musk-like aroma.
 IC ICM A61K007-46
 INCL 512019000
 CC 62-5 (Essential Oils and Cosmetics)
 IT Cosmetics
 (indane formate ester derivative for fragrance with musk-like aroma for)

IT Odor and Odorous substances
 (musk-like, indane formate ester derivs. for)
 IT 496-11-7D, Indane, formate ester derivs. 154505-95-0 154505-96-1
 154505-97-2 154505-98-3 154505-99-4 154506-00-0 154506-01-1
 154506-02-2 154506-03-3 154506-04-4 154506-05-5
 154506-06-6 154506-07-7 154506-08-8 154506-09-9 154506-10-2
 154506-11-3
 RL: BIOL (Biological study)
 (for fragrance with musk-like aroma)
 IT 154506-04-4 154506-05-5
 RL: BIOL (Biological study)
 (for fragrance with musk-like aroma)
 RN 154506-04-4 CAPLUS
 CN 1H-Inden-5-ol, 2,3-dihydro-1,3,3,6-tetramethyl-1-(1-methylethyl)-,
 5-formate (CA INDEX NAME)



RN 154506-05-5 CAPLUS
 CN 1H-Inden-5-ol, 1-ethyl-2,3-dihydro-1,3,6-trimethyl-3-(1-methylethyl)-,
 5-formate (CA INDEX NAME)



L39 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:197834 CAPLUS Full-text
 DOCUMENT NUMBER: 118:197834
 ORIGINAL REFERENCE NO.: 118:33861a,33864a
 TITLE: Reaction products of linalool with citric acid and
 organoleptic uses thereof
 INVENTOR(S): Zampino, Michael J.; Mookherjee, Braja D.
 PATENT ASSIGNEE(S): International Flavors and Fragrances Inc., USA
 SOURCE: U.S., 18 pp. Cont.-in-part of U.S. 5,137,741.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5177057	A	19930105	US 1992-886820	19920522
US 5137741	A	19920811	US 1991-809863	19911219
PRIORITY APPLN. INFO.:			US 1991-809863	A2 19911219

AB Reaction products of linalool (I) with citric acid (II), which contain α -terpineol and other aromatic compds., are used to enhance or impart aromas and tastes to perfumes and perfumed articles such as detergents, hair prepn's., and foodstuffs. Thus, I 150 and II 180g in 1250mL water were refluxed at 100° for 2-4 h and an organic phase having organoleptic characteristics was separated. Formulations of various perfumes, cosmetics, and foods containing the reaction products are disclosed.

IC ICM A61K007-46

INCL 512022000

CC 62-5 (Essential Oils and Cosmetics)
Section cross-reference(s): 17

IT Odor and Odorous substances
Perfumes
(reaction products of citric acid with linalool)

IT Cosmetics
Soaps
RL: BIOL (Biological study)
(reaction products of citric acid with linalool as fragrance in)

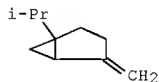
IT Cosmetics
(powders, reaction products of citric acid with linalool as fragrance in)

IT 98-55-5P, α -Terpineol 99-85-4P, γ -Terpinene 106-24-1P, Geraniol 106-26-3P, Neral 123-35-3P, Myrcene 138-86-3P, Limonene 138-87-4P, β -Terpineol 141-27-5P, Geranial 543-39-5P, Myrcenol 556-82-1P, Prenol 586-62-9P, Terpinolene 3338-55-4P, cis- β -Ocimene 3387-41-5P, Sabinene 3779-61-1P, trans- β -Ocimene 5989-33-3P, Linalool oxide 7392-19-0P, Bois de Rose oxide 7643-59-6P, cis-Ocimenol 18479-51-1P, Dihydrolinalool 28977-58-4P, Ocimenol 29210-77-3P
RL: PREP (Preparation)
(preparation of, by reaction of citric acid with linalool, as fragrance)

IT 3387-41-5P, Sabinene
RL: PREP (Preparation)
(preparation of, by reaction of citric acid with linalool, as fragrance)

RN 3387-41-5 CAPLUS

CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:215444 CAPLUS Full-text

DOCUMENT NUMBER: 112:215444

ORIGINAL REFERENCE NO.: 112:36365a,36368a

TITLE: Mint-type flavor oils, compositions containing them and processes for their preparation

INVENTOR(S): Hussein, Momoun Mahmoud; Barcelon, Shirley Ann; Soliman, Ahmed Abd El Hamid; Glass, Michael

PATENT ASSIGNEE(S): Warner-Lambert Co., USA

SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW

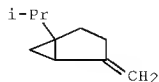
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

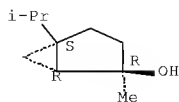
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 349186	A2	19900103	EP 1989-306240	19890620
	EP 349186	A3	19910327		
	R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	FI 8903142	A	19891231	FI 1989-3142	19890628
	JP 02084147	A	19900326	JP 1989-167188	19890630
PRIORITY APPLN. INFO.:			US 1988-213740	A	19880630
AB	Mint-type (e.g. peppermint, spearmint) oils comprising volatile and nonvolatile components, the latter being a mixture of compds. of mol. weight 200-800, are extracted from plant material (e.g. dried leaves) with supercrit. CO ₂ . Spearmint oil extracted from field-dried leaves with supercrit. CO ₂ contained 9 more flavor components than oil obtained by usual steam distillation. Uses for such oils are also claimed.				
IC	ICM A23L001-221				
	ICS A23G003-30; C11B009-02				
CC	17-6 (Food and Feed Chemistry)				
	Section cross-reference(s): 11, 62, 63				
IT	Flavoring materials				
	(mint oils extracted with supercrit. carbon dioxide as)				
IT	Flavor				
	Odor and Odorous substances				
	(of spearmint oil, supercrit. carbon dioxide extraction improvement of)				
IT	75-18-3, Dimethyl sulfide 78-70-6, Linalool 78-84-2, Isobutyraldehyde 80-56-8, α -Pinene 87-44-5, β -Caryophyllene 97-42-7, Carvyl acetate 98-55-5, α -Terpineol 127-91-3, β -Pinene 470-82-6, 1,8-Cineole 488-10-8, cis-Jasmone 552-02-3, Viridiflorol 562-74-3, Terpinen-4-ol 586-62-9, Terpinolene 589-98-0, 3-Octanol 590-86-3, Isovaleraldehyde 1197-06-4, cis-Carveol 1197-07-5, trans-Carveol 3387-41-5, Sabinene 3391-86-4, 1-Octen-3-ol 4864-61-3, 3-Octylacetate 5948-04-9, Dihydrocarvone 5989-54-8 6485-40-1 10458-14-7 17699-16-0, trans-Sabinene hydrate 18794-84-8, trans- β -Farnesene 20777-49-5, Dihydrocarvyl acetate				
	RL: BIOL (Biological study)				
	(of spearmint oil, extraction methods effect on)				
IT	3387-41-5, Sabinene 17699-16-0, trans-Sabinene hydrate				
	RL: BIOL (Biological study)				
	(of spearmint oil, extraction methods effect on)				
RN	3387-41-5 CAPLUS				
CN	Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)				



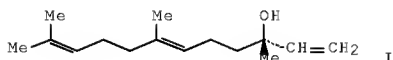
RN 17699-16-0 CAPLUS

CN Bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1R,2R,5S)-rel- (CA INDEX NAME)

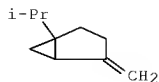
Relative stereochemistry.



L39 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:478387 CAPLUS Full-text
 DOCUMENT NUMBER: 111:78387
 ORIGINAL REFERENCE NO.: 111:13207a,13210a
 TITLE: New natural products from essential oils
 AUTHOR(S): Maurer, Bruno; Hauser, Arnold
 CORPORATE SOURCE: Res. Lab., Firmenich SA, Geneva, CH-1211, Switz.
 SOURCE: Chemistry & Industry (London, United Kingdom) (1988),
 (18), 587-91
 CODEN: CHINAG; ISSN: 0009-3068
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The terpene content of cardamom and cabreuva oils was determined (+)-(S)-
 Nerolidol (I) was a constituent of each. The structures of several terpenes
 were confirmed by synthesis. Their olfactory properties were determined
 CC 30-10 (Terpenes and Terpenoids)
 Section cross-reference(s): 62
 IT Flavoring materials
 (cabreuva oil terpene isomers, preparation of)
 IT Odor and Odorous substances
 (cardamom and cabreuva oil terpenes)
 IT 78-70-6P 80-56-8P, α -Pinene 98-55-5P, α -Terpineol
 115-95-7P, Linalyl acetate 123-35-3P, Myrcene 470-82-6P, 1,8-Cineole
 562-74-3P, 4-Terpineol 3387-41-5P, Sabinene 5989-27-5P,
 (+)-Limonene
 RL: PREP (Preparation)
 (isolation and sensory properties of, from cardamom oil)
 IT 3387-41-5P, Sabinene
 RL: PREP (Preparation)
 (isolation and sensory properties of, from cardamom oil)
 RN 3387-41-5 CAPLUS
 CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:143798 CAPLUS Full-text

DOCUMENT NUMBER: 106:143798

ORIGINAL REFERENCE NO.: 106:23371a,23374a

TITLE: Extraction of natural odorous raw materials with supercritical carbon dioxide. Principle and examples

AUTHOR(S): Pellerin, Patrick

CORPORATE SOURCE: Div. Pfizer, Laloue S. A., Fr.

SOURCE: Parfums, Cosmetiques, Aromes (1986), 71, 61-7

CODEN: PCARDV; ISSN: 0337-3029

DOCUMENT TYPE: Journal

LANGUAGE: French

AB The principles and techniques of extraction of natural materials with supercrit. CO₂ are reviewed. Examples of extraction of celery grains and galbanum gum and the compds. obtained from them are discussed. Products obtained have a fresh natural odor due to the absence of side reaction products (from oxidation, hydrolysis, etc.), are more soluble in alc. than those obtained by classical solvent extraction methods and are enriched in active principles. Some of the components identified are terpenes, sesquiterpene alcs., aromatic ketones and hydrocarbons.

CC 62-5 (Essential Oils and Cosmetics)

Section cross-reference(s): 17

IT Flavoring materials

Odor and Odorous substances

(supercrit. extraction with carbon dioxide of, from plants)

IT 79-92-5, Camphene 80-56-8, α -Pinene 99-87-6, p-Cymene
123-35-3, Myrcene 127-91-3, β -Pinene 138-86-3, Limonene
489-86-1, Guaiol 555-10-2 1009-14-9, Valerophenone 3387-41-5
, Sabinene 6066-49-5, Butyl 3-phthalide 13466-78-9, Δ^3 -Carene
17066-67-0, β -Selinene 19883-27-3 19883-29-5,
trans,trans-1,3,5-Undecatriene 22451-73-6, Bulnesol 27400-71-1,
cis-Ocimene 27400-72-2, trans-Ocimene 51317-08-9, Eudesmol
58037-87-9, Thujene 63038-10-8, Sedanenolide 73398-16-0

RL: PROC (Process)

(extraction of, from plants, supercrit. carbon dioxide for)

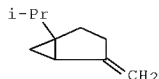
IT 3387-41-5, Sabinene 58037-87-9, Thujene

RL: PROC (Process)

(extraction of, from plants, supercrit. carbon dioxide for)

RN 3387-41-5 CAPLUS

CN Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)- (CA INDEX NAME)



RN 58037-87-9 CAPLUS

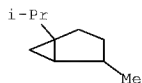
CN Bicyclo[3.1.0]hexane, 4-methyl-1-(1-methylethyl)-, dihydro deriv. (CA

INDEX NAME)

CM 1

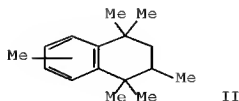
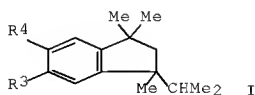
CRN 471-12-5

CMF C10 H18



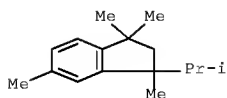
L39 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1984:597954 CAPLUS Full-text
 DOCUMENT NUMBER: 101:197954
 ORIGINAL REFERENCE NO.: 101:29907a,29910a
 TITLE: Isopropyl tetramethylindan musk and its organoleptic use
 INVENTOR(S): Sprecker, Mark A.; Belko, Robert P.; Greene, Roger E.
 PATENT ASSIGNEE(S): International Flavors and Fragrances Inc. , USA
 SOURCE: U.S., 18 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4466908	A	19840821	US 1982-431999	19820930
US 4493790	A	19850115	US 1983-541263	19831012
PRIORITY APPLN. INFO.:			US 1982-431999	A3 19820930
OTHER SOURCE(S):	MARPAT 101:197954			
GI				

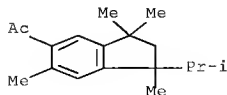


- AB Isopropyltetramethylindane musks [I where R3 and R4 are Ac or Me with the provision: (1) one of R3 or R4 is Me; (2) when R4 = Me then R3 = Ac and (c) when R4 = Ac, R3 = Me] are useful as odorous substances and enhance the aroma of perfume compns., colognes and perfumed articles. Thus, a mixture of acylisopropyltetramethylindans was obtained by a rearrangement and normal acylation of tetralin derivs. (II, 2- or 3-Me) with AcCl [75-36-5] in the presence of anhydrous AlCl3 in tetrachloroethylene. These compds. have an intense, musk aroma with a natural sweet ambrette seed undertone. Perfumes were prepared containing various concns. (1.5-4%) in aqueous EtOH.
- IC C11B009-00

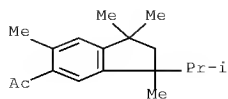
INCL 252522000R
 CC 62-5 (Essential Oils and Cosmetics)
 Section cross-reference(s): 25
 IT Odor and Odorous substances
 (acylisopropyltetramethylindans)
 IT Cosmetics
 Perfumes and Essences
 (acylisopropyltetramethylindans for)
 IT 66324-88-7P
 RL: PREP (Preparation)
 (preparation of)
 IT 21145-77-7P 92836-10-7P 92836-11-8P
 RL: PREP (Preparation)
 (preparation of, for perfumes and perfumed articles)
 IT 92836-12-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (rearrangement of, with acetyl chloride in presence of aluminum
 chloride)
 IT 66324-88-7P
 RL: PREP (Preparation)
 (preparation of)
 RN 66324-88-7 CAPLUS
 CN 1H-Indene, 2,3-dihydro-1,1,3,5-tetramethyl-3-(1-methylethyl)- (CA INDEX
 NAME)



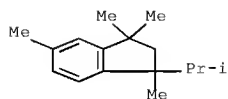
IT 92836-10-7P 92836-11-8P
 RL: PREP (Preparation)
 (preparation of, for perfumes and perfumed articles)
 RN 92836-10-7 CAPLUS
 CN Ethanone, 1-[2,3-dihydro-1,1,3,6-tetramethyl-3-(1-methylethyl)-1H-inden-5-yl]- (CA INDEX NAME)



RN 92836-11-8 CAPLUS
 CN Ethanone, 1-[2,3-dihydro-1,1,3,6-tetramethyl-3-(1-methylethyl)-1H-inden-5-yl]- (CA INDEX NAME)



IT 92836-12-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (rearrangement of, with acetyl chloride in presence of aluminum chloride)
 RN 92836-12-9 CAPLUS
 CN 1H-Indene, 2,3-dihydro-1,3,3,5-tetramethyl-1-(1-methylethyl)- (CA INDEX NAME)



L39 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1979;437781 CAPLUS Full-text
 DOCUMENT NUMBER: 91:37781
 ORIGINAL REFERENCE NO.: 91:6175a,6178a
 TITLE: Extracts of *Comptonia peregrina* as natural aroma agents for foods, beverages, and perfumes
 INVENTOR(S): Jankowski, Christophe; Poulin, Gilles
 PATENT ASSIGNEE(S): Can.
 SOURCE: Can., 4 pp.
 CODEN: CAXXA4
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1053261	A1	19790424	CA 1977-291128	19771117
PRIORITY APPLN. INFO.:			CA 1977-291128	A 19771117

AB A procedure for extracting the terpene fraction from *C. peregrina* leaves is described. Dried leaves (20 g dry weight) were pulverized and extracted with 300 mL MeOH; the solvent was evaporated under vacuum, and the terpene fraction was extracted from the residue with anhydrous ether. The fraction (.apprx.0.8 g) had a persistent aroma. Thujane [546-80-5] (28 mg) and umbellulone [24545-81-1] (12 mg) were identified in the volatile oils by gas chromatog. and mass spectroscopy; 4 other terpenes were also present. Thujane derivs. are permitted as flavorings for alc. beverages in Canada.

IC C07C049-27; C11B009-02
 CC 17-2 (Foods)
 Section cross-reference(s): 16, 62
 IT Odor and Odorous substances
 (of *Comptonia peregrina* leaves, extraction of)
 IT Flavoring materials

Perfumes and Essences

(Comptonia peregrina leaf extract)

IT 546-80-5 24545-81-1

RL: BIOL (Biological study)

(of aroma extract, of Comptonia peregrina leaves)

IT 546-80-5

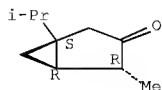
RL: BIOL (Biological study)

(of aroma extract, of Comptonia peregrina leaves)

RN 546-80-5 CAPLUS

CN Bicyclo[3.1.0]hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S,4R,5R)- (CA
INDEX NAME)

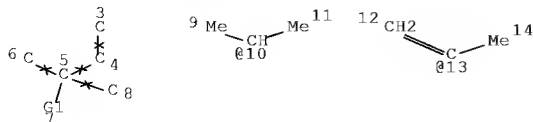
Absolute stereochemistry.



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SEARCH HISTORY

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L7 STR L6
L8 5 SEA SSS SAM L7
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 L10 20 SEA ABB=ON L9 AND L3

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 L14 4654 SEA ABB=ON L13 AND 62/SC, SX
 L15 142 SEA ABB=ON L13 (L) COS/RL
 L16 80 SEA ABB=ON GRANIER T?/AU
 L17 1 SEA ABB=ON L13 AND L16
 D SCAN
 L18 11654 SEA ABB=ON FLAVORING MATERIALS/CT
 E "ODOR AND ODOROUS SUBSTANCES"+ALL/CT
 L19 34550 SEA ABB=ON (ODOR# OR ODOROUS)/CW
 E E20+ALL
 L20 17445 SEA ABB=ON PERFUME#/CW
 L21 85 SEA ABB=ON L13 AND L18
 L22 706 SEA ABB=ON L13 AND L19
 L23 122 SEA ABB=ON L13 AND L20
 L24 3735 SEA ABB=ON BATH PREPARATIONS/CT
 L25 12683 SEA ABB=ON LAUNDRY/OBI
 L26 12812 SEA ABB=ON HOUSEHOLD/OBI
 L27 8 SEA ABB=ON L15 AND L19 AND (L20 OR L24)
 L28 16 SEA ABB=ON L15 AND (L20 OR L24)
 L29 17 SEA ABB=ON L15 AND L19
 L30 55572 SEA ABB=ON COSMETICS/CT
 L31 29 SEA ABB=ON L15 AND L30
 L32 29 SEA ABB=ON L15 AND L30 AND L14
 L33 24 SEA ABB=ON L14 AND L18
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 L36 5 SEA ABB=ON L31 AND L33
 L37 16 SEA ABB=ON L14 AND L19 AND (L30 OR L18)

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